



The catalogue

For extraction technology and occupational health & safety

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KEMPER®



Always one step ahead!



Dear Customers and KEMPER partners,

Smoke, dust or fume from welding or cutting applications cause enormous health hazards for employees who work in production. We've known that since 1977. As a pioneer in welding fume extraction, we have been helping metalworking companies maintain clean air in their facilities since our founding. Numerous studies confirm the health risks. The World Health Organization (WHO) classifies welding fumes as carcinogenic.

On the topic of occupational safety, the focus is on the employees health. Against this background, we advocate dust-free working environments beyond the legally prescribed limits. The sense of responsibility toward production employees is the driving force of effective health and safety. Healthy employees are efficient employees. Effective extraction technology is therefore essential.

Today, ensuring maximum occupational health and safety already requires a combination of safety measures in many

cases. We therefore offer a comprehensive portfolio of source extraction, extraction units, general ventilation system and additional safety equipment. We also include the digital infrastructure for Smart Factories. KEMPER products stand for the maximum degree of clean air in production areas.


We make machines for people.

Björn Kemper, Michael Schiller and Frederic Lanz
Executive Management of KEMPER GmbH



 Mobile Filter Units



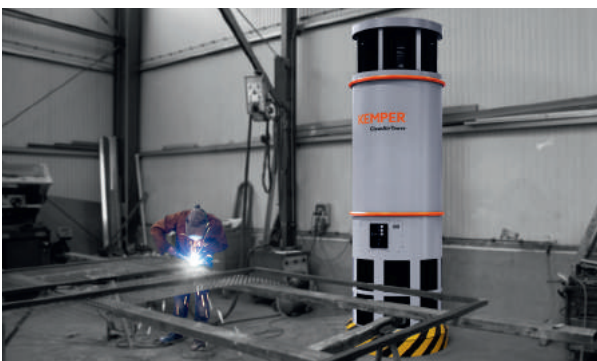
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 General Ventilation Systems




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 Extraction and Cutting Tables



 Occupational safety and partition walls

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Mobile Filter Units

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Cleanable Filter

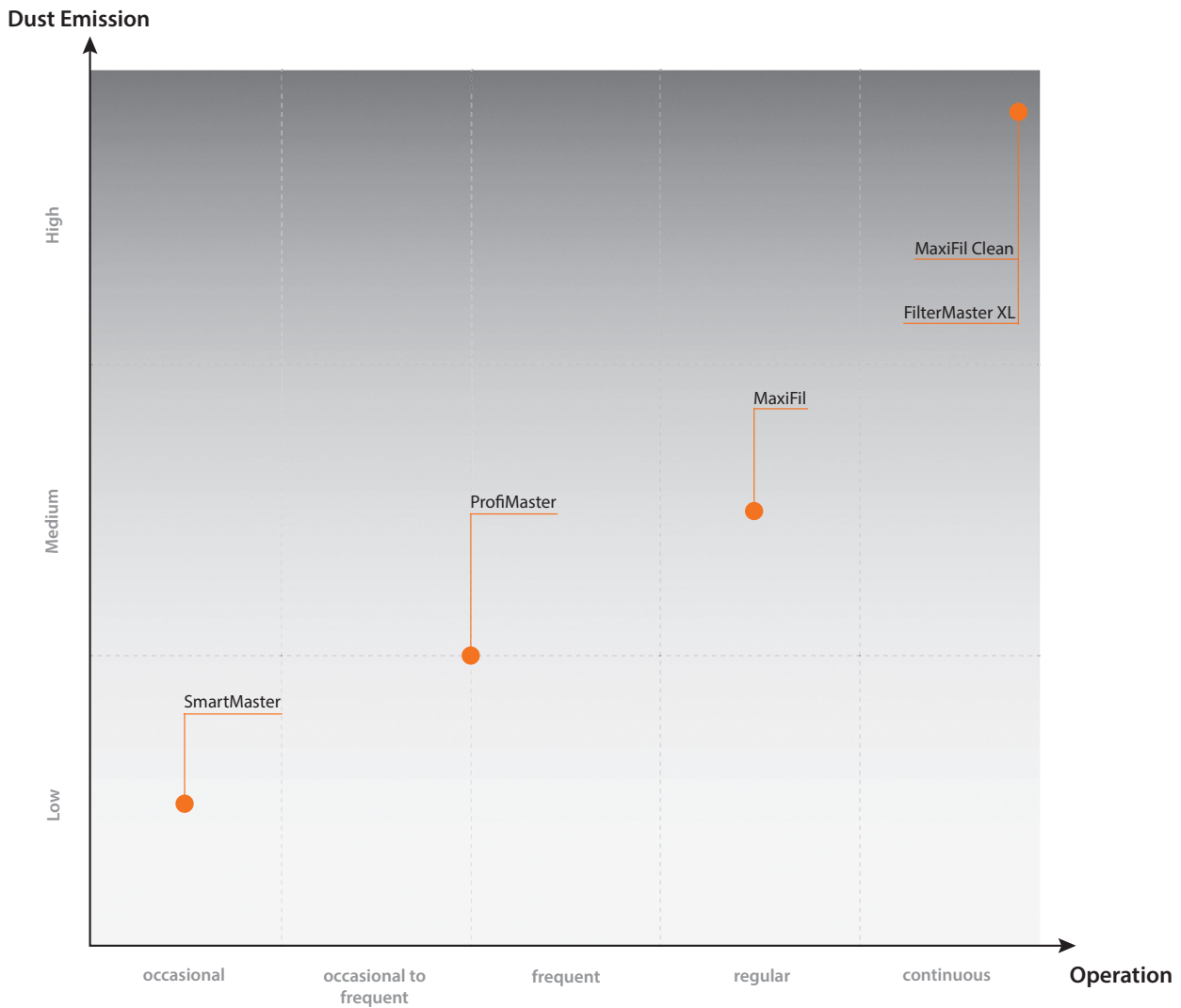
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Range of application for mobile filter units



	SmartMaster	Profimaster	MaxiFil	Filter-Master XL	MaxiFil Clean
High-alloy steel non-ferrous metal (IFA)	✓	✓	✓	✓	✓
TIG welding Chromium nickel steel	✓	✓	✓	-	-

Selection criteria for mobile filter units

According to application

Emission rate	Material	Use			
		Occasional	Occasional to frequent	Regular	Continuous
Application example Class I & II < 1 - 2 mg/s Submerged arc welding TIG welding Laser welding	Non-alloy Low-alloy	SmartMaster	SmartMaster ProfiMaster	ProfiMaster MaxiFil	MaxiFil
	Aluminum	SmartMaster	SmartMaster ProfiMaster	ProfiMaster MaxiFil	MaxiFil
	High-alloy Alloy Steel	SmartMaster	SmartMaster ProfiMaster	ProfiMaster MaxiFil	MaxiFil
Class III 2-25mg/s Electric arc welding MIG/MAG welding	Non-alloy Low-alloy Aluminum	SmartMaster	ProfiMaster	MaxiFil Filter-Master XL	MaxiFil Clean Filter-Master XL
	High-alloy Non-ferrous metal	SmartMaster	ProfiMaster	MaxiFil Filter-Master XL	MaxiFil Clean Filter-Master XL
Class IV > 25mg/s Flux-cored wire welding	Non-alloy Low-alloy Aluminum	ProfiMaster	MaxiFil Filter-Master XL	MaxiFil Clean Filter-Master XL	MaxiFil Clean Filter-Master XL
	High-alloy Non-ferrous metal	ProfiMaster	MaxiFil Filter-Master XL	MaxiFil Filter-Master XL	MaxiFil Clean MaxiFil Filter-Master XL

Recommendations based on European norms and expected change or cleaning intervals of the filters.



SmartMaster

- » Basic unit
- » Sporadic use



Applications

- » Also suitable for high-alloy steel
- » Low amounts of smoke/dust
- » Occasional use

Properties

- » W3/IFA certified
- » Handle with cable holder
- » Rotating exhaust hood

Benefits

- » Exhaust arm requires less adjustment due to flow-optimised exhaust hood design
- » Increased safety due to filter monitoring
- » Flexible use due to hose connection

Technical Data

Filter	
Filter stages	3
Filter method	Disposable filter
Filter surface	13 m ²
Type of filter	Filter cassette
Filter material	Non-woven fibre
Filter efficiency	> 99.5 %
Filter class	E12
Additional filters	Two pre-filters
Basic data	
Extraction capacity	950 m ³ /h
Dimensions (w x d x h)	722 x 753 x 909 mm
Weight	71 kg
Motor power	1.1 kW
Power supply	1 x 230 V / 50 Hz
Rated current	6.7 A
Noise level	72 dB(A)
Additional information	
IFA-Certification	W3-Approved
Fan type	Radial fan
Exhaust arm type	flexible exhaust arm

Order Data

Art. No.	Description
64 300	2 m Arm, flexible exhaust arm
64 330	3 m Arm, flexible exhaust arm
64 310	3 m suction hose and nozzle

Replacement Parts and Accessories

Art. No.	Description
109 0454	Main filter 13 m ²
109 0453	Pre-filter cassette
109 0452	Pre-filter mats (10 per set)
79 103 00	Exhaust hood
79 103 02	Swivel joint for mobile units
127 0091	Protection mesh for exhaust hood



ProfiMaster, one exhaust arm

- » Robust quality
- » High capacity filter

Applications

- » Also suitable for high-alloy steel
- » Low to medium levels of smoke and dust
- » Occasional to frequent use

Properties

- » Exhaust arm up to 4 m
- » Automatic Start/Stop (optional)
- » Rotating exhaust hood

Benefits

- » Safe operation by rotation field control
- » Maintenance door allows easy filter change
- » Exhaust arm requires less adjustment due to flow-optimised exhaust hood design
- » Increased safety due to filter monitoring

Accessories

- » Automatic start/stop



Order Data

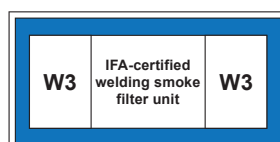
Art. No.	Description
60 650 100	2 m Arm, flexible exhaust arm
60 650 101	3 m Arm, flexible exhaust arm
60 650 102	4 m Arm, flexible exhaust arm
60 650 103	2 m Arm, rigid metal tube arm
60 650 104	3 m Arm, rigid metal tube arm
60 650 105	4 m Arm, rigid metal tube arm

Replacement Parts and Accessories

Art. No.	Description
109 0457	Main filter 17 m ²
109 0033	Pre-filter mats (10 per set)
109 0013	Aluminium pre-filter for ProfiMaster, Filter-Cell, Filter-Table
94 102 781	For ProfiMaster: Automatic start/stop sensor, 5 m connection cable and adapter for single arm filter units
79 103 00	Exhaust hood
79 103 02	Swivel joint for mobile units
127 0091	Protection mesh for exhaust hood

Technical Data

Filter	
Filter stages	2
Filter method	Disposable filter
Filter surface	17 m ²
Type of filter	Filter cassette
Filter material	Non-woven fibre
Filter efficiency	> 99.5 %
Filter class	E12
Additional filters	Pre-filter
Basic data	
Extraction capacity	1100 m ³ /h
Dimensions (w x d x h)	797 x 828 x 977 mm
Weight	104 kg
Motor power	1.1 kW
Power supply	3 x 400 V / 50 Hz
Rated current	2.3 A
Noise level	72 dB(A)
Additional information	
IFA-Certification	W3-Approved
Fan type	Radial fan



ProfiMaster, two exhaust arms

- » Two exhaust arms
- » High capacity filter



Applications

- » Low to medium levels of smoke and dust
- » Occasional to frequent use
- » For two work places

Properties

- » Exhaust arm up to 4 m
- » Automatic Start/Stop (optional)
- » Rotating exhaust hood

Benefits

- » Safe operation by rotation field control
- » Maintenance door allows easy filter change
- » Exhaust arm requires less adjustment due to flow-optimised exhaust hood design
- » Increased safety due to filter monitoring
- » Space-saving solution due to two extraction arms
- » Possibility of working in two alternating places due to dampers in the extraction hood

Accessories

- » Automatic start/stop

Technical Data

Filter	
Filter stages	2
Filter method	Disposable filter
Filter surface	17 m ²
Type of filter	Filter cassette
Filter material	Non-woven fibre
Filter efficiency	> 99.5 %
Filter class	E12
Additional filters	Pre-filter
Basic data	
Extraction capacity	2 x 700 m ³ /h
Dimensions (w x d x h)	797 x 828 x 977 mm
Weight	113.8 kg
Motor power	1.1 kW
Power supply	3 x 400 V / 50 Hz
Rated current	2.3 A
Noise level	72 dB(A)
Additional information	
Fan type	Radial fan

Order Data

Art. No.	Description
60 650 DA 100	2 m Arm, flexible exhaust arm
60 650 DA 101	3 m Arm, flexible exhaust arm
60 650 DA 102	4 m Arm, flexible exhaust arm
60 650 DA 103	2 m Arm, rigid metal tube arm
60 650 DA 104	3 m Arm, rigid metal tube arm
60 650 DA 105	4 m Arm, rigid metal tube arm

Replacement Parts and Accessories

Art. No.	Description
109 0457	Main filter 17 m ²
109 0033	Pre-filter mats (10 per set)
109 0013	Aluminium pre-filter for ProfiMaster, Filter-Cell, Filter-Table
94 102 782	For ProfiMaster: Automatic start/stop sensor, 5 m connection cable and adapter for twin arm filter units
79 103 00	Exhaust hood
79 103 02	Swivel joint for mobile units
127 0091	Protection mesh for exhaust hood

Applications

- » Also suitable for high-alloy steel
- » Medium levels of smoke and dust
- » Regular use

Properties

- » Exhaust arm up to 4 m
- » Automatic Start/Stop (optional)
- » Lighting in the hood (optional)
- » Rotating exhaust hood

Benefits

- » Increased safety due to filter monitoring
- » Increased safety with safe filter change
- » Very economic due to long lasting high capacity filters

Accessories

- » Automatic start/stop
- » Workplace lighting incl. on/off switch at the hood

MaxiFil

- » High filter capacity
- » Safe filter change



Order Data

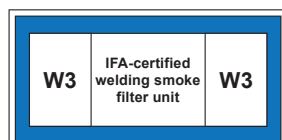
Art. No.	Description
65 650 100	2 m Arm, flexible exhaust arm
65 650 101	3 m Arm, flexible exhaust arm
65 650 102	4 m Arm, flexible exhaust arm
65 650 103	2 m Arm, rigid metal tube arm
65 650 104	3 m Arm, rigid metal tube arm
65 650 105	4 m Arm, rigid metal tube arm

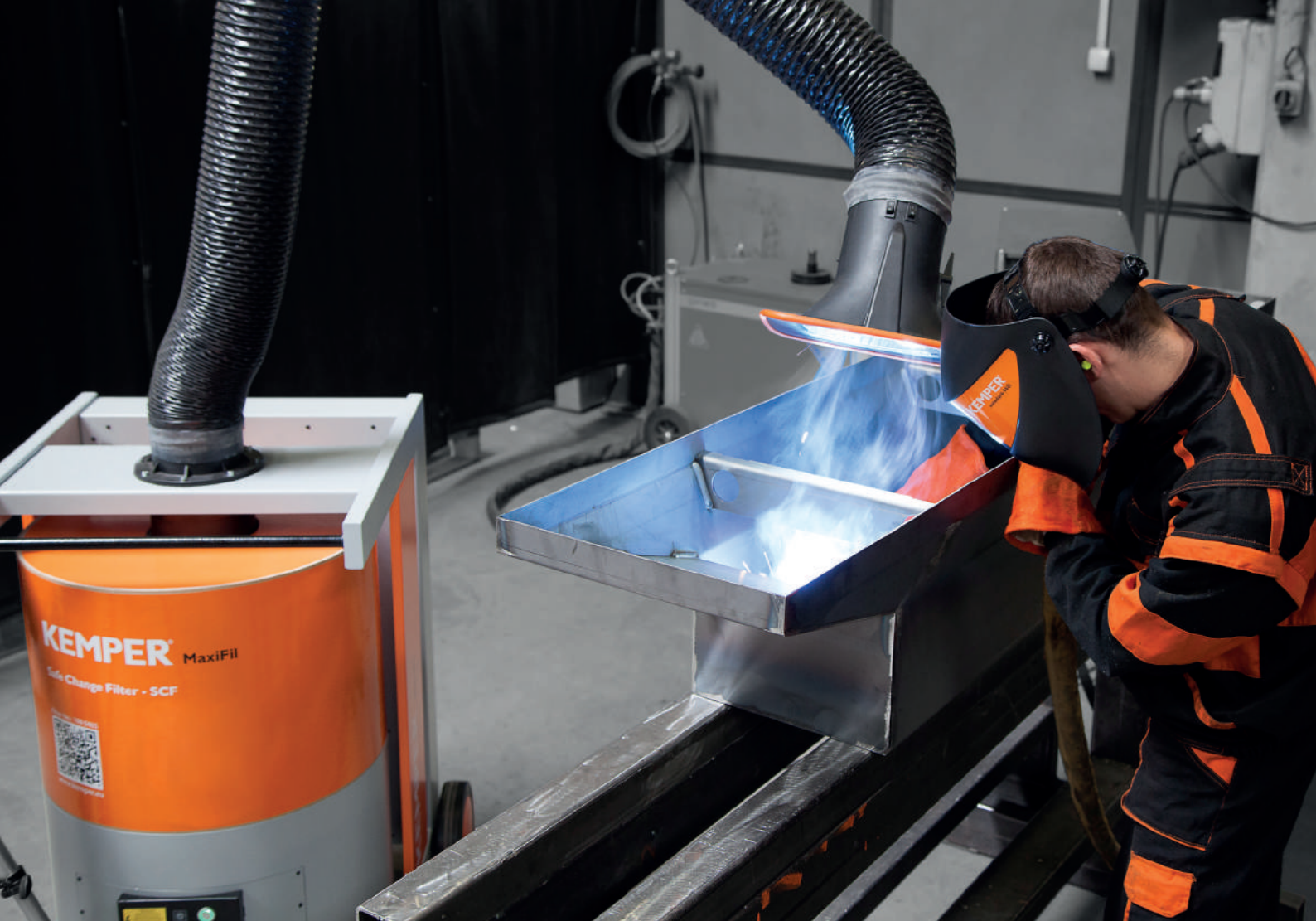
Replacement Parts and Accessories

Art. No.	Description
109 0517	Replacement filter 42 m ²
109 0472	Pre-filter mats (10 per set)
94 102 702	For MaxiFil, MaxiFil Clean, VacuFil 125: Automatic start/stop sensor, 5 m connection cable
79 103 040	Lighting kit incl. exhaust hood, 2 x 5 W LED lights (original equipment for filter units)
79 103 045	Lighting kit incl. exhaust hood, 2 x 5 W LED lights (retrofit for existing filter units)
79 103 00	Exhaust hood
79 103 02	Swivel joint for mobile units
127 0091	Protection mesh for exhaust hood

Technical Data

Filter	
Filter stages	2
Filter method	Disposable filter
Filter surface	42 m ²
Type of filter	Safe Change Filter
Filter material	Non-woven polyester
Filter efficiency	> 99.5 %
Filter class	E12
Additional filters	Pre-filter (aluminum)
Basic data	
Extraction capacity	1100 m ³ /h
Dimensions (w x d x h)	803 x 892 x 1109 mm
Weight	129 kg
Motor power	1.5 kW
Power supply	3 x 400 V / 50 Hz
Rated current	3.1 A
Noise level	70 dB(A)
Additional information	
IFA-Certification	W3-Approved
Fan type	Radial fan





Applications

- » Absorption of gases and odors
- » Medium levels of smoke and dust
- » Regular use

Properties

- » Exhaust arm up to 4 m
- » Automatic Start/Stop (optional)
- » Lighting in the hood (optional)
- » Activated carbon filter with 7.8 kg filling volume
- » Rotating exhaust hood

Benefits

- » Safe operation by rotation field control
- » Exhaust arm requires less adjustment due to flow-optimised exhaust hood design
- » Increased safety due to filter monitoring
- » Increased safety with safe filter change
- » Very economic due to long lasting high capacity filters

Accessories

- » Automatic start/stop
- » Workplace lighting incl. on/off switch at the hood

Order Data

Art. No.	Description
65 650 AK 100	2 m Arm, flexible exhaust arm
65 650 AK 101	3 m Arm, flexible exhaust arm
65 650 AK 102	4 m Arm, flexible exhaust arm
65 650 AK 103	2 m Arm, rigid metal tube arm
65 650 AK 104	3 m Arm, rigid metal tube arm
65 650 AK 105	4 m Arm, rigid metal tube arm

Replacement Parts and Accessories

Art. No.	Description
109 0515	Set Main filter and activated charcoal filter for MaxiFil
109 0504	Replacement filter 34 m ²
109 0505	Activated charcoal filter
94 102 702	For MaxiFil, MaxiFil Clean, VacuFil 125: Automatic start/stop sensor, 5 m connection cable
79 103 00	Exhaust hood
79 103 040	Lighting kit incl. exhaust hood, 2 x 5 W LED lights (original equipment for filter units)
79 103 045	Lighting kit incl. exhaust hood, 2 x 5 W LED lights (retrofit for existing filter units)
79 103 02	Swivel joint for mobile units
127 0091	Protection mesh for exhaust hood

MaxiFil AC

- » Activated carbon filter
- » Safe filter change



Technical Data

Filter	
Filter stages	3
Filter method	Disposable filter
Filter surface	34 m ²
Type of filter	Safe Change Filter
Filter material	Non-woven polyester
Filter efficiency	> 99.5 %
Filter class	F9
Additional filters	Pre-filter (aluminum) and activated charcoal filter
Basic data	
Extraction capacity	950 m ³ /h
Dimensions (w x d x h)	803 x 892 x 1109 mm
Weight	135 kg
Motor power	1.5 kW
Power supply	3 x 400 V / 50 Hz
Rated current	3.1 A
Noise level	70 dB(A)
Additional information	
Fan type	Radial fan



Comparison Test

Mobile filter units with disposable filter

Test conditions

Welding current: 312 A
Welding voltage: 30,3 V
Wire diameter: 1,2 mm
Wire feed: 11 m/min

Permanent reading: Welding time und welding wire usage until Filter change

	Model	Recommended application	Filter surface	Welding time in hours (Arc time)	Usage of welding wire (kg)	Filter life (Factor)
	SmartMaster	occasional	13 m ²	6 ¾	40,7	100 %
	ProfiMaster	frequent	17 m ²	13	86	210 %
	MaxiFil	regular	42 m ²	33 ¼	218	540 %

Note

- » The results were established by extensive durability test on an automatic welding system
- » The lower the filter surface, the higher is the airspeed across the filter media. The particles form a solid filter cake and the flow through the filter media is restricted. The dust load capacity is very poor.
- » The higher the filter surface, the lower is the airspeed across the filter media. Particles form an open porous filter cake which acts as an additional filter. The air can flow through the filter cake and the filter media easily for a long time. The dust storage capacity is very high. This is the reason for the much longer filter life of the MaxiFil.

Product Comparison

Mobile filter units with disposable filter



SmartMaster

ProfiMaster

MaxiFil

General Information

Filter

Filter stages	3	2	2
Filter method	Disposable filter	Disposable filter	Disposable filter
Filter surface	ca. 13 m ²	ca. 17 m ²	ca. 42 m ²
Type of filter	Filter cassette	Filter cassette	SafeChangeFilter
Filter material	Non-woven fibre	Non-woven fibre	Non-woven polyester
Filter efficiency	> 99.5%	> 99.5%	> 99.5%
Filterclass	E12	E12	E12
Additional filters	Two pre-filters	Pre-filter	Pre-filter

Technical Data

Basic data

Extraction capacity	950 m ³ /h	1,100 m ³ /h	1,100 m ³ /h
Dimensions (w x d x h)	705 x 655 x 900 mm	785 x 730 x 950 mm	810 x 825 x 1,150 mm
Weight	71kg	95 kg	129 kg
Motor power	1.1 kW	1.1 kW	1.5 kW
Power supply	1 x 230 V / 50 Hz	3 x 400 V / 50 Hz	3 x 400 V / 50 Hz
Rated current	6.7 A	2.3 A	3.1 A
Noise level	72 dB(A)	72 dB(A)	70 dB(A)

Additional information

IFA-Certification	W3-Approved	W3-Approved	W3-Approved
Fan type	Radial fan	Radial fan	Radial fan
Contamination-free filter change	-	-	Yes

Order Data

Description	Art. No.	Art. No.	Art. No.
Flexible exhaust arm, 2 m	64 300	60 650 100	65 650 100
Flexible exhaust arm, 3 m	64 330	60 650 101	65 650 101
Flexible exhaust arm, 4 m	-	60 650 102	65 650 102
Rigid metal tube arm, 2 m	-	60 650 103	65 650 103
Rigid metal tube arm, 3 m	-	60 650 104	65 650 104
Rigid metal tube arm, 4 m	-	60 650 105	65 650 105

Accessories

Description

Automatic Start/Stop	-	Yes	Yes
Workplace lighting incl. on/off switch at the hood	-	-	Yes

Filter-Master XL

- » Basic unit
- » Automatic filter cleaning



Applications

- » Also suitable for high-alloy steel
- » High levels of smoke and dust
- » Non-stop operation

Properties

- » 360 degrees rotating exhaust hood with damper
- » W3/IFA certified
- » Automatic filter cleaning
- » KemTex® ePTFE filter cartridge
- » Rotation field control
- » Exhaust arm up to 4 m

Benefits

- » High efficiency due to automatic filter cleaning
- » Exhaust arm requires less adjustment due to flow-optimised exhaust hood design
- » Best health protection for employees by use of KemTex® ePTFE filter cartridge with surface filtration
- » Safe operation by rotation field control

Technical Data

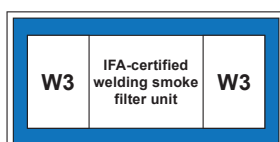
Filter	
Filter stages	1
Filter method	Cleanable filter
Filter cleaning method	Rotating nozzle
Filter surface	10 m ²
Type of filter	Filter cartridge
Filter material	ePTFE membrane
Filter efficiency	> 99.9 %
Dust classification	M
Basic data	
Extraction capacity	1000 m ³ /h
Dimensions (w x d x h)	643 x 816 x 1457 mm
Weight	155 kg
Motor power	1.5 kW
Power supply	3 x 400 V / 50 Hz
Rated current	3.2 A
Noise level	69 dB(A)
Additional information	
IFA-Certification	W3-Approved
Fan type	Radial fan
Compressed air supply	5 - 6 bar
Exhaust arm type	flexible exhaust arm

Order Data

Art. No.	Description
62 100 100	2 m Arm, flexible exhaust arm
62 100 101	3 m Arm, flexible exhaust arm
62 100 102	4 m Arm, flexible exhaust arm

Replacement Parts and Accessories

Art. No.	Description
109 0438	10 m ² KemTex® ePTFE membrane cartridge filter
79 103 00	Exhaust hood
79 103 02	Swivel joint for mobile units
127 0091	Protection mesh for exhaust hood



Suitable for alveole exchangeable dusts
separation > 99 % of particles < 0,4 µm

Applications

- » Also suitable for high-alloy steel
- » High levels of smoke and dust
- » Non-stop operation

Properties

- » Automatic filter cleaning
- » Exhaust arm up to 4 m
- » Automatic Start/Stop (optional)
- » Lighting in the hood (optional)
- » Cleanable filter
- » Automatic dust removal - contamination-free
- » Rotating exhaust hood
- » Spark separator

Benefits

- » Safe operation by rotation field control
- » Exhaust arm requires less adjustment due to flow-optimised exhaust hood design
- » Increased safety due to filter monitoring
- » Increased safety by means of automatic dust removal in cartridges, contamination-free
- » Very economic due to long lasting high capacity filters

Accessories

- » Automatic start/stop
- » Workplace lighting incl. on/off switch at the hood

Order Data

Art. No.	Description
67 150 100	2 m Arm, flexible exhaust arm
67 150 101	3 m Arm, flexible exhaust arm
67 150 102	4 m Arm, flexible exhaust arm
67 150 103	2 m Arm, rigid metal tube arm
67 150 104	3 m Arm, rigid metal tube arm
67 150 105	4 m Arm, rigid metal tube arm

Replacement Parts and Accessories

Art. No.	Description
119 0688	Dust collection cartridge (Set of 4)
109 0469	15 m ² KemTex® ePTFE membrane cartridge filter
94 102 702	For MaxiFil, MaxiFil Clean, VacuFil 125: Automatic start/stop sensor, 5 m connection cable
79 103 040	Lighting kit incl. exhaust hood, 2 x 5 W LED lights (original equipment for filter units)
79 103 00	Exhaust hood
127 0091	Protection mesh for exhaust hood

MaxiFil Clean

- » Contamination free dust disposal
- » Automatic filter cleaning



Technical Data

Filter	
Filter stages	2
Filter method	Cleanable filter
Filter cleaning method	Rotating nozzle
Filter surface	15 m ²
Type of filter	Filter cartridge
Filter material	ePTFE membrane
Filter efficiency	> 99.9 %
Dust classification	M
Additional filters	Cyclone pre-filter
Basic data	
Extraction capacity	1100 m ³ /h
Dimensions (w x d x h)	810 x 940 x 1350 mm
Weight	206 kg
Motor power	1.5 kW
Power supply	3 x 400 V / 50 Hz
Rated current	3.2 A
Noise level	72 dB(A)
Additional information	
IFA-Certification	W3-Approved
Fan type	Radial fan
Compressed air supply	5 - 6 bar



Suitable for alveole exchangeable dusts
separation > 99 % of particles < 0,4 µm



Product Comparison

Mobile filter units with cleanable filter



Filter Master XL



MaxiFil Clean

General Information

Filter

Filter stages	1	2
Filter method	Cleanable filter	Cleanable filter
Filter cleaning method	Rotating nozzle	Rotating nozzle
Filter surface	ca. 10 m ²	ca. 15 m ²
Type of filter	Filter cartridge	Filter cartridge
Filter material	ePTFE-membrane	ePTFE-membrane
Filter efficiency	> 99,9%	> 99,9%
Filterclass	M	M
Additional filters	-	Cyclone pre-filter

Technical Data

Basic data

Extraction capacity	1,000 m ³ /h	1,100 m ³ /h
Dimensions (w x d x h)	655 x 655 x 1,460 mm	810 x 940 x 1,350 mm
Weight	155 kg	206 kg
Motor power	1.5 kW	1.5 kW
Power supply	3 x 400 V / 50 Hz	3 x 400 V / 50 Hz
Rated current	3.2 A	3.75 A
Noise level	69 dB(A)	72 dB(A)

Additional information

IFA-Certification	W3-Approved	W3-Approved
Fan type	Radial fan	Radial fan
Compressed air supply	5 - 6 bar	5 - 6 bar
Quantity of extraction arms	1	1
Contamination-free filter change	-	Yes

Order Data

Description	Art.-Nr.	Art.-Nr.
Flexible exhaust arm, 2 m	62 100 100	67 150 100
Flexible exhaust arm, 3 m	62 100 101	67 150 101
Flexible exhaust arm, 4 m	62 100 102	67 150 102
Rigid metal tube arm, 2 m	-	67 150 103
Rigid metal tube arm, 3 m	-	67 150 104
Rigid metal tube arm, 4 m	-	67 150 105

Accessories

Description

Automatic Start/Stop	-	Yes
Workplace lighting incl. on/off switch at the hood	-	Yes





Capture hood with lighting

For MaxiFil, MaxiFil Clean

Art. No.	Description
79 103 040	Lighting kit incl. exhaust hood, 2 x 5 W LED lights (original equipment for filter units)
79 103 045	Lighting kit incl. exhaust hood, 2 x 5 W LED lights (retrofit for existing filter units)



Capture hood with lighting

For welding smoke filter, electrostatic filter, cartridge filter

Art. No.	Description
79 103 046	Lighting kit for single arm filter units with exhaust hood 2 x 5 W LED lights, Trafo-Box (original equipment for filter units)
79 103 047	Lighting kit for twin arm filter units with exhaust hood 2 x 5 W LED lights, Trafo-Box (original equipment for filter units)
79 103 035	Lighting kit for single arm filter units with exhaust hood 2 x 5 W LED lights, Trafo-Box (retrofit for filter units)
79 103 036	Lighting kit for twin arm filter units with exhaust hood 2 x 5 W LED lights, Trafo-Box (retrofit for filter units)



Replacement hood

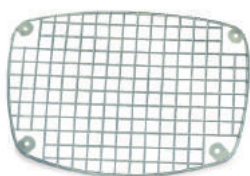
Exhaust hood for the exhaust arms and telescopic exhaust arms, incl. swivel joint and fastening.

Art. No.	Description
79 103 00	Exhaust hood



Automatic Start/Stop

Art. No.	Description
94 102 702	For MaxiFil, MaxiFil Clean, VacuFil 125: Automatic start/stop sensor, 5 m connection cable
94 102 781	For ProfiMaster: Automatic start/stop sensor, 5 m connection cable and adapter for single arm filter units
94 102 782	For ProfiMaster: Automatic start/stop sensor, 5 m connection cable and adapter for twin arm filter units
94 102 704	For VacuFil 500 and Cartridge Filter: Automatic start/stop sensor, 5 m connection cable



Protective mesh

Replacement mesh for the KEMPER exhaust hood

Art. No.	Description
127 0091	Protection mesh for exhaust hood

Replacement hose for flexible exhaust arm

Replacement hoses for exhaust arms and telescopic exhaust arms. Polyester hose with PVC coating and an internal steel wire spiral.

Art. No.	Description
114 0348	2,0 m, Ø150mm
114 0349	3,0 m, Ø150mm
114 0350	4,0 m, Ø150mm



Replacement hoses for rigid metal tube arms

Polyester hose with PVC coating and an internal steel wire spiral.

Art. No.	Description
79 103 40	Set of replacement hoses (3 pcs.)
79 103 10	Set of HT hoses (3 pcs.)



Swivel Joint

Art. No.	Description
79 103 02	Swivel joint for mobile units



Replacement hose 3,0 m

Art. No.	Description
93 096	Replacement hose for SmartMaster 64310, 3,0 m, Ø150mm



Extraction nozzle

Art. No.	Description
770 200 0001	Extraction nozzle for SmartMaster 64310, DN150





Spare filter for SmartMaster

Art. No.	Description
109 0454	Main filter 13 m ²
109 0452	Pre-filter mats (10 per set)
109 0453	Pre-filter cassette



Spare filter for ProfiMaster

Art. No.	Description
109 0457	Main filter 17 m ²
109 0033	Pre-filter mats (10 per set)
109 0013	Aluminium pre-filter for ProfiMaster, Filter-Cell, Filter-Table



Replacement filter for MaxiFil

Art. No.	Description
109 0517	Replacement filter 42 m ²
109 0472	Pre-filter mats (10 per set)



Replacement filter for MaxiFil charcoal

Art. No.	Description
109 0515	Set Main filter and activated charcoal filter for MaxiFil
109 0504	Replacement filter 34 m ²
109 0505	Activated charcoal filter
109 0472	Pre-filter mats (10 per set)



Spare filter for Filter-Master XL

Art. No.	Description
109 0438	10 m ² KemTex® ePTFE membrane cartridge filter



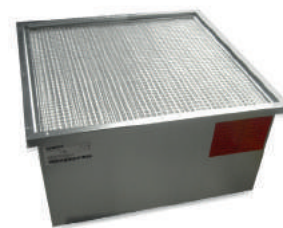
Dust collection cartridge for MaxiFil Clean

Art. No.	Description
119 0688	Dust collection cartridge (Set of 4)
109 0469	15 m ² KemTex® ePTFE membrane cartridge filter

Compact filter with aluminum separators

Type: 64 100 ...

Art. No.	Description
21 400	Spare filter for Filter-Master 13,3 m ²
109 0033	Pre-filter mats (10 per set)



Spare filter for Welding Smoke Filter

Type: 84 100 ..., 84 200 ..., 91 550 ...

Art. No.	Description
109 0010	Main filter 15,8 m ²
109 0033	Pre-filter mats (10 per set)



Replacement filter for welding fumes with charcoal

Type: 84 101 ..., 84 201 ...

Art. No.	Description
109 0005	Activated charcoal filter



Spare filter for Welding Smoke Filter IFA

Type: 84 150 ...

Art. No.	Description
109 0227	Main filter 17,1 m ²
109 0033	Pre-filter mats (10 per set)



Spare filter for Cartridge Filter

Type: 82 100 ..., 82 200 ..., 82 150 ...

Art. No.	Description
109 0434	4 m ² KemTex® ePTFE membrane cartridge filter





Extraction Systems - Stationary

Overview

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Disposable Filter

MaxiFil Stationary	28
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Cleanable Filter

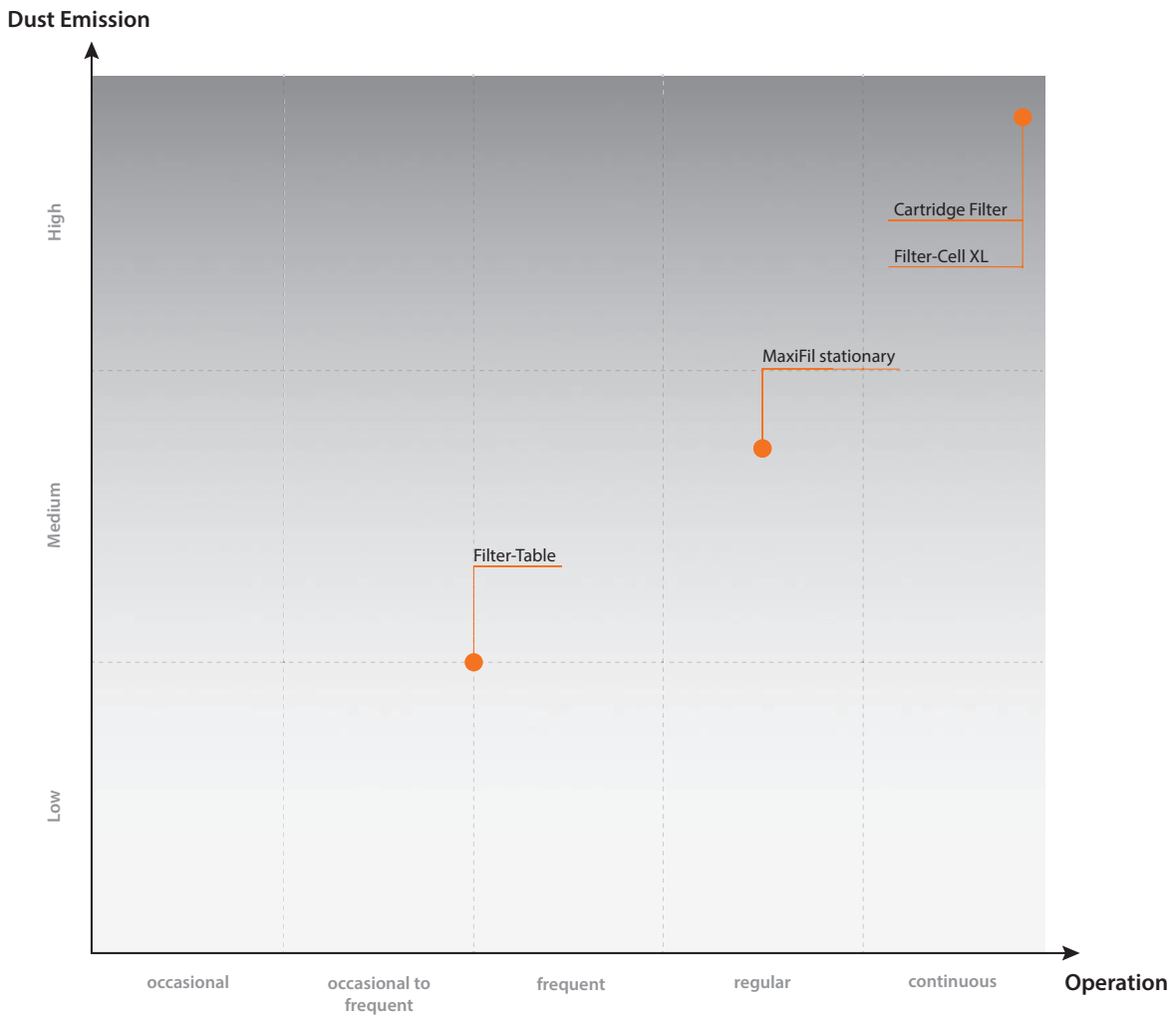
Cartridge Filter, stationary	32
Filter-Cell XL	33

Accessories And Replacement Parts

Accessories and spare parts for stationary units	34
Spare filter for stationary units	36



Range of application for stationary filter units



	Filter-Table	Cartridge Filter	Filter-Cell XL	MaxiFil stationary
High-alloy steel non-ferrous metal (IFA)	✓*	✓*	✓*	✓*
TIG welding Chromium nickel steel	✓*	-	-	✓*

* Units can be equipped with exhaust air connector.

Selection criteria for stationary filter units

According to application

Emission rate	Material	Use			
Application example		Occasional	Occasional to frequent	Regular	Continuous
Class I & II < 1 - 2 mg/s submerged arc welding TIG welding Laser welding	Non-alloy Low-alloy	Filter-Table	Filter-Table	Filter-Table MaxiFil stationary	Cartridge Filter Filter-Cell XL MaxiFil stationary
	Aluminium	Filter-Table	Filter-Table	Filter-Table MaxiFil stationary	Cartridge Filter Filter-Cell XL MaxiFil stationary
	High-alloy non-ferrous metal *2	Filter-Table	Filter-Table	Filter-Table MaxiFil stationary *3	Cartridge Filter *1 Filter-Cell XL *1 MaxiFil stationary *3
Class III 2-25mg/s Electric arc welding MIG/MAG welding	Non-alloy Low-alloy Aluminium	Filter-Table	Filter-Table	Cartridge Filter Filter-Cell XL MaxiFil stationary	Cartridge Filter Filter-Cell XL
	High-Alloy non-ferrous metal *2	Filter-Table	Filter-Table	Cartridge Filter Filter-Cell XL MaxiFil stationary	Cartridge Filter Filter-Cell XL
Class IV > 25mg/s Flux-cored wire welding	non-alloy Low alloy Aluminium	Filter-Table	Cartridge Filter Filter-Cell XL MaxiFil stationary	Cartridge Filter Filter-Cell XL	Cartridge Filter Filter-Cell XL
	high alloy non-ferrous metal *2	Filter-Table	Cartridge Filter Filter-Cell XL MaxiFil stationary	Cartridge Filter Filter-Cell XL MaxiFil stationary	Cartridge Filter Filter-Cell XL MaxiFil stationary

Recommendations based on European norms and expected change or cleaning intervals of the filters.

*1 except TIG welding of chromium-nickel-steel

*2 Units can be operated with outgoing air duct

*3 Device is IFA tested. *2 does not apply



MaxiFil Stationary

- » High filter capacity
- » Safe filter change



Applications

- » Also suitable for high-alloy steel
- » Medium levels of smoke and dust
- » Regular use

Properties

- » 360 degrees rotating exhaust hood with damper
- » W3/IFA certified
- » Automatic Start/Stop (optional)
- » Lighting in the hood (optional)
- » Arm from 5 m with boom
- » Silencer
- » Control box

Benefits

- » Safe operation by rotation field control
- » Exhaust arm requires less adjustment due to flow-optimised exhaust hood design
- » Increased safety due to filter monitoring
- » Increased safety with safe filter change

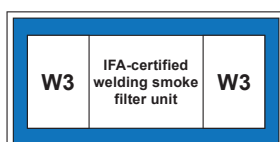
Accessories

- » Automatic start/stop
- » Workplace lighting incl. on/off switch at the hood

Technical Data

Filter	
Filter stages	2
Filter method	Disposable filter
Filter surface	42 m ²
Type of filter	Safe Change Filter
Filter material	Non-woven polyester
Filter efficiency	> 99.5 %
Filter class	E12
Additional filters	Pre-filter
Basic data	
Extraction capacity	1000 m ³ /h
Dimensions (w x d x h)	1533 x 776 x 1228.5 mm
Weight	125 kg
Motor power	1.5 kW
Power supply	3 x 400 V / 50 Hz
Rated current	3.1 A
Noise level	72 dB(A)
Additional information	
IFA-Certification	W3-Approved
Fan type	Radial fan

*Suitable upright columns see chapter extraction arms and fans



Order Data

Art. No.	Description
65 850 100	2 m Arm, flexible exhaust arm
65 850 101	3 m Arm, flexible exhaust arm
65 850 102	4 m Arm, flexible exhaust arm
65 850 103	5 m Arm, flexible exhaust arm
65 850 104	6 m Arm, flexible exhaust arm
65 850 105	7 m Arm, flexible exhaust arm
65 850 106	2 m Arm, rigid metal tube arm
65 850 107	3 m Arm, rigid metal tube arm
65 850 108	4 m Arm, rigid metal tube arm
65 850 109	5 m Arm, rigid metal tube arm
65 850 110	6 m Arm, rigid metal tube arm
65 850 111	7 m Arm, rigid metal tube arm

Replacement Parts and Accessories

Art. No.	Description
109 0517	Replacement filter 42 m ²
94 102 702	For MaxiFil, MaxiFil Clean, VacuFil 125: Automatic start/stop sensor, 5 m connection cable
79 103 040	Lighting kit incl. exhaust hood, 2 x 5 W LED lights (original equipment for filter units)
79 103 045	Lighting kit incl. exhaust hood, 2 x 5 W LED lights (retrofit for existing filter units)
79 103 00	Exhaust hood
79 053 01	Swivel joint for stationary units
127 0091	Protection mesh for exhaust hood



EMPER MaxiFill

KEP



Filter-Table

- » Work bench with filter unit
- » Large working area



Applications

- » Low to medium levels of smoke and dust
- » Occasional to frequent use
- » Welding and grinding

Properties

- » Spark separator
- » Large, robust material support
- » Activated charcoal filter (optional)

Benefits

- » Maintenance door allows easy filter change
- » Effective spark protection ensures maximum safety
- » Downdraft extraction throughout the whole working area
- » Wide range of applications due to large working area of 1,200 x 800 mm

Technical Data

Filter	
Filter stages	2
Filter method	Disposable filter
Filter surface	15.8 m ²
Type of filter	Filter cassette
Filter material	Non-woven fibre
Filter class	F9
Additional filters	Pre-filter (aluminum)
Basic data	
Extraction capacity	1400 m ³ /h
Dimensions (w x d x h)	1200 x 800 x 1340 mm
Weight	153 kg
Motor power	1,5 kW
Power supply	3 x 400 V / 50 Hz
Rated current	3.2 A
Noise level	71 dB(A)
Additional information	
Fan type	Radial fan

Order Data

Art. No.	Description
950 400 001	KEMPER Filter-Table

*also available as variant with visual protection windows

Replacement Parts and Accessories

Art. No.	Description
109 0010	Main filter 15,8 m ²
109 0013	Aluminium pre-filter for ProfiMaster, Filter-Cell, Filter-Table
109 0345	Activated charcoal filter





Cartridge Filter, stationary

- » Automatic filter cleaning
- » Non-stop operation



Applications

- » High levels of smoke and dust
- » Non-stop operation
- » Two exhaust arms available

Properties

- » 360 degrees rotating exhaust hood with damper
- » Automatic filter cleaning, pressure-controlled
- » KemTex® ePTFE filter cartridges
- » Arm from 5 m with boom
- » Available with two arms
- » Silencer
- » Control box

Benefits

- » High efficiency due to automatic filter cleaning
- » Less need to adjust the exhaust arm due to flow-optimised exhaust hood design
- » Best health protection for employees by use of KemTex® ePTFE filter cartridges with surface filtration
- » Low air consumption due to differential pressure-controlled cleaning

Accessories

- » Automatic start/stop
- » Workplace lighting incl. on/off switch at the hood

Technical Data

Filter	
Filter stages	1
Filter method	Cleanable filter
Filter cleaning method	Rotating nozzle
Filter surface	8 m ²
Type of filter	Filter cartridge
Filter material	ePTFE membrane
Filter efficiency	> 99.9 %
Dust classification	M
Basic data	
Extraction capacity	1200 m ³ /h
Max. fan performance	3000 m ³ /h
Dimensions (w x d x h)	655 x 655 x 1355 mm
Weight	146 kg
Motor power	1,5 kW
Power supply	3 x 400 V / 50 Hz
Rated current	3.5 A
Noise level	71 dB(A)
Additional information	
Fan type	Radial fan
Compressed air supply	5 - 6 bar

*An overview of accessories and spare parts can be found at the end of this chapter

Single arm unit

Art. No.	Description
83 100 100	2 m Arm, flexible exhaust arm
83 100 101	3 m Arm, flexible exhaust arm
83 100 102	4 m Arm, flexible exhaust arm
83 100 103	5 m Arm, flexible exhaust arm
83 100 104	6 m Arm, flexible exhaust arm
83 100 105	7 m Arm, flexible exhaust arm
83 100 106	2 m Arm, rigid metal tube arm
83 100 107	3 m Arm, rigid metal tube arm
83 100 108	4 m Arm, rigid metal tube arm
83 100 109	5 m Arm, rigid metal tube arm
83 100 110	6 m Arm, rigid metal tube arm
83 100 111	7 m Arm, rigid metal tube arm

Twin arm unit

Art. No.	Description
83 200 100	2 m Arm, flexible exhaust arm
83 200 101	3 m Arm, flexible exhaust arm
83 200 102	4 m Arm, flexible exhaust arm
83 200 103	5 m Arm, flexible exhaust arm
83 200 104	6 m Arm, flexible exhaust arm
83 200 105	7 m Arm, flexible exhaust arm
83 200 106	2 m Arm, rigid metal tube arm
83 200 107	3 m Arm, rigid metal tube arm
83 200 108	4 m Arm, rigid metal tube arm
83 200 109	5 m Arm, rigid metal tube arm
83 200 110	6 m Arm, rigid metal tube arm
83 200 111	7 m Arm, rigid metal tube arm

Applications

- » High levels of smoke and dust
- » Non-stop operation
- » For exhaust hoods, extraction tables and robot cells

Properties

- » 160mm duct connection
- » Automatic filter cleaning
- » KemTex® ePTFE filter cartridge
- » Height-adjustable feet
- » Rotation field control

Benefits

- » High efficiency due to automatic filter cleaning
- » Space-saving due to compact design
- » Easy installation since unit is delivered ready to plug in ("plug and play")
- » Best health protection for employees by use of KemTex® ePTFE filter cartridge with surface filtration
- » Safe operation by rotation field control

Filter-Cell XL

- » Compact
- » Automatic filter cleaning



Order Data

Art. No.	Description
60 200	KEMPER Filter-Cell XL

Replacement Parts and Accessories

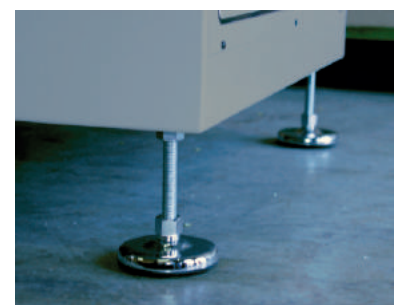
Art. No.	Description
109 0438	10 m² KemTex® ePTFE membrane cartridge filter

Technical Data

Filter	
Filter method	Cleanable filter
Filter cleaning method	Rotating nozzle
Filter surface	10 m²
Type of filter	Filter cartridge
Filter material	ePTFE membrane
Filter efficiency	> 99.9 %
Dust classification	M
Basic data	
Extraction capacity	1000 m³/h
Max. fan performance	3000 m³/h
Dimensions (w x d x h)	655 x 655 x 1460 mm
Weight	155 kg
Motor power	1,5 kW
Power supply	3 x 400 V / 50 Hz
Noise level	69 dB(A)
Additional information	
Fan type	Radial fan



Suitable for alveole exchangeable dusts
separation > 99 % of particles < 0,4 µm





Capture hood with lighting

For MaxiFil stationary

Art. No.	Description
79 103 040	Lighting kit incl. exhaust hood, 2 x 5 W LED lights (original equipment for filter units)
79 103 045	Lighting kit incl. exhaust hood, 2 x 5 W LED lights (retrofit for existing filter units)



Replacement hood

Exhaust hood for the exhaust arms and telescopic exhaust arms, incl. swivel joint and fastening.

Art. No.	Description
79 103 00	Exhaust hood
79 103 040	Lighting kit incl. exhaust hood, 2 x 5 W LED lights (original equipment for filter units)



Capture hood with lighting

For welding smoke filter, electrostatic filter, cartridge filter

Art. No.	Description
79 103 046	Lighting kit for single arm filter units with exhaust hood 2 x 5 W LED lights, Trafo-Box (original equipment for filter units)
79 103 047	Lighting kit for twin arm filter units with exhaust hood 2 x 5 W LED lights, Trafo-Box (original equipment for filter units)
79 103 035	Lighting kit for single arm filter units with exhaust hood 2 x 5 W LED lights, Trafo-Box (retrofit for filter units)
79 103 036	Lighting kit for twin arm filter units with exhaust hood 2 x 5 W LED lights, Trafo-Box (retrofit for filter units)

Automatic Start/Stop

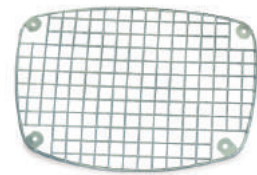
Art. No.	Description
94 102 702	For MaxiFil, MaxiFil Clean, VacuFil 125: Automatic start/stop sensor, 5 m connection cable
94 102 704	For VacuFil 500 and Cartridge Filter: Automatic start/stop sensor, 5 m connection cable



Protective mesh

For exhaust sets

Art. No.	Description
127 0091	Protection mesh for exhaust hood



Replacement hose for flexible exhaust arm

Replacement hoses for exhaust arms and telescopic exhaust arms. Polyester hose with PVC coating and an internal steel wire spiral.

Art. No.	Description
114 0348	2,0 m, Ø150mm
114 0349	3,0 m, Ø150mm
114 0350	4,0 m, Ø150mm



Replacement hoses for rigid metal tube arms

Polyester hose with PVC coating and an internal steel wire spiral.

Art. No.	Description
79 103 40	Set of replacement hoses (3 pcs.)
79 103 10	Set of HT hoses (3 pcs.)





Replacement filter for MaxiFil stationary

Art. No.	Description
109 0517	Replacement filter 42 m ²



Spare filter for Filter-Table

Art. No.	Description
109 0010	Main filter 15,8 m ²
109 0013	Aluminium pre-filter for ProfiMaster, Filter-Cell, Filter-Table



Spare filter for Cartridge Filter

Art. No.	Description
109 0434	4 m ² KemTex® ePTFE membrane cartridge filter



Spare filter for Filter-Cell XL

Art. No.	Description
109 0438	10 m ² KemTex® ePTFE membrane cartridge filter

Spare filter for Filter-Cell

Art. No.	Description
21 102	Bag filter
109 0010	Main filter 15,8 m ²
109 0013	Aluminium pre-filter for ProfiMaster, Filter-Cell, Filter-Table



Replacement filter for welding fumes filter stationary

Type: 85 100 ..., 85 200 ..., 85 300 ..., 91 560 ...

Art. No.	Description
109 0010	Main filter 15,8 m ²
109 0033	Pre-filter mats (10 per set)



Replacement filter for welding fumes stationary charcoal

Type: 85 101 ..., 85 200 ..., 85 300 ...

Art. No.	Description
109 0005	Activated charcoal filter





Exhaust Arms And Fans

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Exhaust Arms

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Exhaust arm for suction rail	46

Fans

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Central fan	49
Exhaust fan	50

Welding Fume Exhaust Set

Exhaust Set	51
Extraction set - one-piece boom	52
Extraction set - two-piece boom	53

Accessories And Replacement Parts

Accessories and spare parts for exhaust arms	54
Accessories and spare parts for extraction fans	56

Tubes

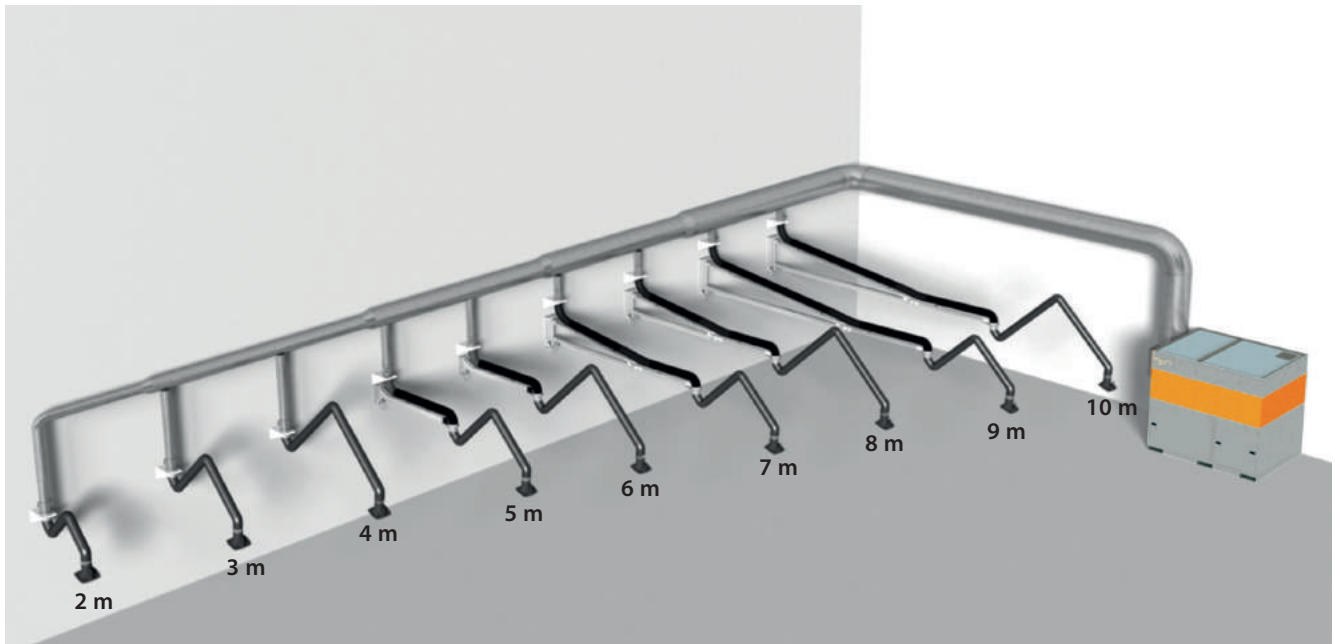
High vacuum extraction hose up to 85°C	58
Suction and pressure hose	59
High temperature hose 250 °C	60
Vehicle exhaust gas hose up to 300 °C	61





Exhaust arms overview

Smooth-running one-hand operation with high degree of detection



Booms

These can be one- or two-part depending on length and fastened in place by a wall bracket. They have C-rails with trolleys and can handle loads, for example tools or wire feeders, of up to 50 kg.

Extraction arms

The arm can be moved to any desired position within its range easily and quickly and remains there.

Flexible hose version

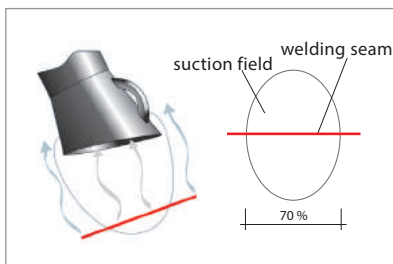
The flexible hose arm consists of internal rods and external hosing.

Rigid metal tube version

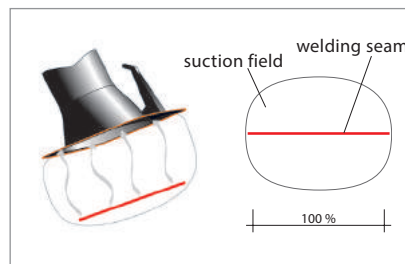
This version consists of two aluminium tubes and three pieces of hosing at the internal joints.

Extraction hood

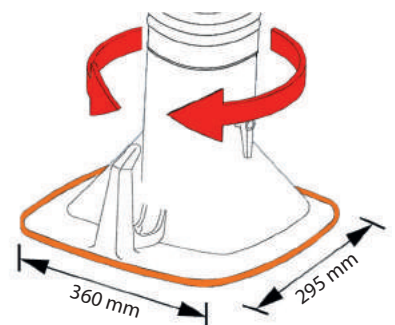
The rectangular shape and 360-degree flexibility of the hood ensure it is always ideally positioned relative to welding. It is very easy to operate and can be positioned with one hand. The flange-shaped cover on the sides prevents the extraction of unwanted air. The hood has a 40% higher efficiency level than standard oval models and needs less positioning.



Conventional, oval exhaust hood



Exhaust hood with flange-shaped overlap



Exhaust arm

- » Flexible operation
- » Large capture area



Technical Data

Additional information

Diameter extraction arm	150 mm
-------------------------	--------

Order Data

Art. No.	Description
79 002	2 m Arm, flexible exhaust arm
79 003	3 m Arm, flexible exhaust arm
79 004	4 m Arm, flexible exhaust arm
79 502	2 m Arm, rigid metal tube arm
79 503	3 m Arm, rigid metal tube arm
79 504	4 m Arm, rigid metal tube arm

Replacement Parts and Accessories

Art. No.	Description
79 103 048	Lighting kit incl. exhaust hood, 2 x 5 W LED lights, trafo-box (original fitted)
79 103 034	Lighting kit incl. Exhaust hood, 2 x 5 W LED lights, Trafo-Box (retrofit for exhaust arm)
79 103 00	Exhaust hood

Applications

- » For connection to fans or central extraction systems
- » High levels of smoke and dust
- » Non-stop operation
- » Welding fumes, gases, vapours, light dusts

Benefits

- » Fast operation due to particularly flexible adjustment
- » 40% less adjustment of the exhaust arm needed due to exhaust hood design
- » User-friendly due to particularly smooth movement of the hood with one hand
- » Arm keeps position due to self-supporting design
- » Various options to connect the exhaust arms to fans, stationary devices or via duct work to central extraction and filtration systems

Properties

- » 360 degrees rotating exhaust hood with damper
- » Self-supported by internal springs
- » Exhaust arms up to 4 m

Scope Of Supply

- » Exhaust arm with hood
- » Wall bracket



Extraction arm - one-piece boom

- » Flexible operation
- » Large capture area



Applications

- » For connection to fans or central extraction systems
- » High levels of smoke and dust
- » Non-stop operation
- » Welding fumes, gases, vapours, light dusts
- » Large workpieces

Benefits

- » Reduced tripping hazard by attaching tools or wire feed unit to the boom with carriage
- » 40% less adjustment of the exhaust arm needed due to exhaust hood design
- » User-friendly due to particularly smooth movement of the hood with one hand
- » Arm keeps position due to self-supporting design
- » Fast operation due to long reach and particularly flexible adjustment
- » Various options to connect the exhaust arms to fans, stationary devices or via duct work to central extraction and filtration systems

Properties

- » 360 degrees rotating exhaust hood with damper
- » Self-supported by internal springs
- » Boom with 50 kg load capacity
- » Boom with integrated C-rail with carriage
- » Exhaust arms up to 6 m (with boom)

Scope Of Supply

- » Exhaust arm with hood
- » Boom
- » Wall bracket

Order Data

Art. No.	Total length	Length of exhaust arm	Length of boom	Extraction arm type	Weight	Ø Extraction arm
79 205	5 m	3 m	2 m	flexible exhaust arm	63 kg	150 mm
79 206	6 m	4 m	2 m	flexible exhaust arm	66 kg	150 mm
79 007	7 m	4 m	3 m	flexible exhaust arm	75 kg	150 mm
79 705	5 m	3 m	2 m	rigid metal tube arm	63 kg	150 mm
79 706	6 m	4 m	2 m	rigid metal tube arm	66 kg	150 mm
79 507	7 m	4 m	3 m	rigid metal tube arm	75 kg	150 mm

*An overview of accessories and spare parts can be found at the end of this chapter

Extraction arm - two-piece boom

- » Flexible operation
- » Large capture area



Benefits

- » Reduced tripping hazard by attaching tools or wire feed unit to the boom with carriage
- » 40% less adjustment of the exhaust arm needed due to exhaust hood design
- » User-friendly due to particularly smooth movement of the hood with one hand
- » Arm keeps position due to self-supporting design
- » Fast operation due to long reach and particularly flexible adjustment
- » Various options to connect the exhaust arms to fans, stationary devices or via duct work to central extraction and filtration systems

Applications

- » For connection to fans or central extraction systems
- » High levels of smoke and dust
- » Non-stop operation
- » Welding fumes, gases, vapours, light dusts
- » Large workpieces

Properties

- » 360 degrees rotating exhaust hood with damper
- » Self-supported by internal springs
- » As a flexible exhaust arm: Polyester fabric hose, PVC coated with welded steel wire spiral
- » As a rigid metal tube arm: Powder-coated aluminum tube, three flexible hose sections
- » Boom with integrated C-rail with carriage
- » Exhaust arms up to 10 m (with boom)

Scope Of Supply

- » Exhaust arm with hood
- » Boom
- » Wall bracket

Order Data

Art. No.	Total length	Length of exhaust arm	Length of boom	Extraction arm type	Weight	Ø Extraction arm
79 307	7 m	3 m	2,5 + 1,5 m	flexible exhaust arm	142 kg	150 mm
79 308	8 m	4 m	2,5 + 1,5 m	flexible exhaust arm	145 kg	150 mm
79 409	9 m	3 m	4 + 2 m	flexible exhaust arm	195 kg	150 mm
79 410	10 m	4 m	4 + 2 m	flexible exhaust arm	198 kg	150 mm
79 807	7 m	3 m	2,5 + 1,5 m	rigid metal tube arm	142 kg	150 mm
79 808	8 m	4 m	2,5 + 1,5 m	rigid metal tube arm	145 kg	150 mm
79 909	9 m	3 m	4 + 2 m	rigid metal tube arm	195 kg	150 mm
79 910	10 m	4 m	4 + 2 m	rigid metal tube arm	198 kg	150 mm

*An overview of accessories and spare parts can be found at the end of this chapter

Column for exhaust arm

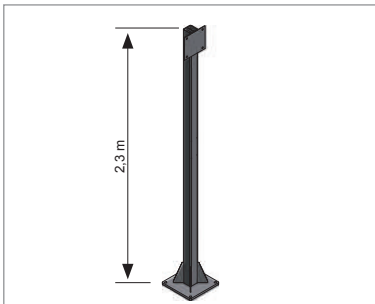


Column for exhaust arm

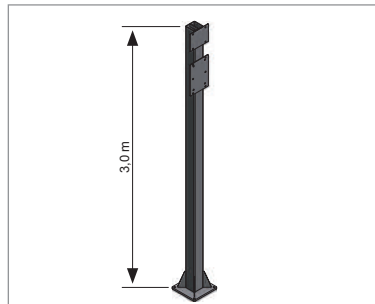
This column is the optimal solution, if there is no possibility to fasten the exhaust arm to the wall or a pillar.

Order Data

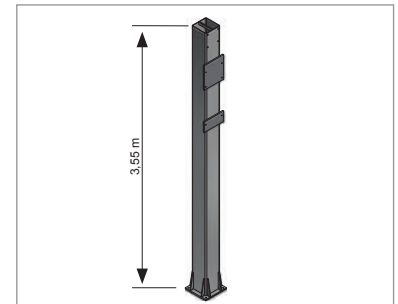
Art. No.	Length of exhaust arm	Length	Weight	Colour
998 800 280	2 - 4 m	2300 mm	40 kg	black, RAL 9005
998 801 323	5 - 7 m	3000 mm	71 kg	black, RAL 9005
141 1303	6 - 10 m	3550 mm	184 kg	black, RAL 9005



998 800 280



998 801 323



141 1303

Exhaust Arm Upright -Suspended

- » 360° rotatable exhaust hood
- » Large capture area



Applications

- » For existing devices
- » Non-stop operation
- » On work tables
- » On extraction devices
- » Welding fumes, gases, vapours, light dusts

Scope Of Supply

- » Exhaust arm with hood
- » Swivel joint

Art. No.	Description	Diameter	Exhaust arm type	Weight
79 052	2 m Arm, suspended installation	150 mm	flexible exhaust arm	17 kg
79 053	3 m Arm, suspended installation	150 mm	flexible exhaust arm	21 kg
79 054	4 m Arm, suspended installation	150 mm	flexible exhaust arm	24 kg
79 102	2 m Arm, upright installation	150 mm	flexible exhaust arm	17 kg
79 103	3 m Arm, upright installation	150 mm	flexible exhaust arm	21 kg
79 104	4 m Arm, upright installation	150 mm	flexible exhaust arm	24 kg



Exhaust arm for suction rail

- » Movable
- » Large capture area



Applications

- » For connection to fans or central extraction systems
- » High levels of smoke and dust
- » Non-stop operation
- » Welding fumes, gases, vapours, light dusts
- » Large workpieces

Properties

- » Polyester fabric hose, PVC coated with welded steel wire spiral
- » 360 degrees rotating exhaust hood with damper
- » Exhaust arms up to 4 m

Benefits

- » Fast operation due to long reach and particularly flexible adjustment of the exhaust arm by 360 degrees below the carriage
- » 40% less adjustment of the exhaust arm needed due to exhaust hood design
- » User-friendly due to particularly smooth movement of the hood with one hand
- » Arm keeps position due to self-supporting design

Scope Of Supply

- » Exhaust arm with hood
- » Swivel joint

Technical Data

Basic data	
Diameter	150 mm
Additional information	
Exhaust arm type	flexible exhaust arm

Order Data

Art. No.	Description
79 002 100	2 m Arm
79 003 100	3 m Arm
79 004 100	4 m Arm

Replacement Parts and Accessories

Art. No.	Description
93 018	Set of connecting material Ø160 mm
93 200	Connecting pipe Ø 160 mm
127 0091	Protection mesh for exhaust hood



Fan

- » Low noise, spark proof
- » Venting



Applications

- » For exhaust arms, telescopic arms and suction hoses
- » High levels of smoke and dust
- » Non-stop operation

Properties

- » Housing and fan of cast silumin
- » Models with 1,000 to 2,200 m³/h: connection Ø 160 mm
- » Models with 3,000 m³/h: connection Ø 250 mm

Benefits

- » Very quiet and spark-proof due to cast silumin housing

Order Data

Art. No.	Description
92 101	Capacity 1,000m ³ /h, 0,55kW-3x400V
92 102	Capacity 1,000m ³ /h, 0,55kW-1x230V
92 103	Capacity 1,000m ³ /h, 0,55kW-3x500V
92 104	Capacity 2,000m ³ /h, 0,75kW-3x400V
92 105	Capacity 2,000m ³ /h · 0,75kW · 1x230V
92 106	Capacity 2,000m ³ /h, 0,75kW-3x500V
92 104 100	Capacity 2,200m ³ /h, 1,1kW-3x400V
92 104 116	Capacity 2,200m ³ /h, 1,1kW-3x500V
92 104 112	Capacity 2,000 m ³ /h - 1,1 kW - 1 x 230 V

*Motor protection switches see accessories

Order Data

Art. No.	Description
92 215	Capacity 3,000m ³ /h, 1,50kW-3x400V
92 215 100	Capacity 3,000m ³ /h, 1,50kW-3x500V
92 215 111	Capacity 3,000m ³ /h, 1,50kW-1x230V



Exhaust fan

- » Mobile
- » Ventilation



Applications

- » High levels of smoke and dust
- » Non-stop operation
- » For ventilation and extraction

Properties

- » Housing and fan of cast silumin
- » Portable and mobile
- » 2,000m³/h version: suction hose Ø 100 mm, Ø 150 mm, outgoing air hose Ø 160 mm connectable
- » 3,000m³/h version: Suction hose Ø250mm connectable

Benefits

- » High flexibility since blower can be used both for ventilation and extraction
- » Very quiet and spark-proof due to cast silumin housing
- » Suitable for use on construction sites due to robust construction

Technical Data

Additional information

Fan type	Radial fan
----------	------------

Order Data

Art. No.	Extraction capacity	Maximum vacuum	Dimensions (w x d x h)	Power supply	Motor power
91 623	2000 m ³ /h	1350 Pa	600 x 600 x 750 mm	3 x 400 V / 50 Hz	0,75 kW
91 623 100	2000 m ³ /h	1350 Pa	600 x 600 x 750 mm	1 x 230 V / 50 Hz	0.75 kW
91 618	3000 m ³ /h	1950 Pa	600 x 790 x 750 mm	3 x 400 V / 50 Hz	1,5 kW
91 618 100	3000 m ³ /h	1950 Pa	600 x 790 x 750 mm	1 x 230 V / 50 Hz	1,5 kW

Further Products

Art. No.	Description
93 082	Exhaust hose Ø 100 mm, length 6,0 m, incl. exhaust hood with magnetic foot
93 083	Exhaust hose Ø 150 mm, length 6,0 m, incl. exhaust hood with magnetic foot
79 103 31	Exhaust hood with magnetic foot, including exhaust hose, Ø 150 mm, length 6,0 m
93 087	Exhaust hose, Ø 250 mm, length 6,0 m, incl. exhaust hood with magnetic foot
93 087 100	Exhaust hose Ø 250 mm, length 10,0 m, incl. exhaust hood with magnetic foot
93 084	Outgoing air hose, Ø 160 mm, length 6,0 m
93 088	Outgoing air hose Ø 250 mm, length 6,0 m



Exhaust Set

- » Flexible operation
- » Large capture area



Technical Data

Basic data	
Extraction capacity	1000 m³/h
Max. fan performance	2000 m³/h
Motor power	0,75 kW
Power supply	3 x 400 V / 50 Hz
Rated current	1.5 A
Noise level	73 dB(A)
Additional information	
Fan type	Radial fan

Order Data

Art. No.	Description
79 002 201	2 m Arm, flexible exhaust arm
79 003 201	3 m Arm, flexible exhaust arm
79 004 201	4 m Arm, flexible exhaust arm
79 502 201	2 m Arm, rigid metal tube arm
79 503 201	3 m Arm, rigid metal tube arm
79 504 201	4 m Arm, rigid metal tube arm

Replacement Parts and Accessories

Art. No.	Description
79 103 00	Exhaust hood
127 0091	Protection mesh for exhaust hood
79 103 048	Lighting kit incl. exhaust hood, 2 x 5 W LED lights, trafo-box (original fitted)
79 103 034	Lighting kit incl. Exhaust hood, 2 x 5 W LED lights, Trafo-Box (retrofit for exhaust arm)
106 0290	Rubber rings set of 10

Applications

- » High levels of smoke and dust
- » Non-stop operation
- » Where filtration is not essential
- » Welding fumes, gases, vapours, light dusts

Benefits

- » Very quiet due to housing of cast silumin
- » 40% less adjustment of the exhaust arm needed due to exhaust hood design
- » User-friendly due to particularly smooth movement of the hood with one hand
- » Arm keeps position due to self-supporting design

Properties

- » 360 degrees rotating exhaust hood with damper
- » Self-supported by internal springs
- » As a flexible exhaust arm: Polyester fabric hose, PVC coated with welded steel wire spiral
- » As a rigid metal tube arm: Powder-coated aluminum tube, three flexible hose sections
- » Fan made of spark-proof cast silumin

Scope Of Supply

- » Fan
- » Exhaust arm with hood
- » Wall bracket
- » Motor protection switch
- » Set of connecting material
- » Connecting pipe extendable from 1,25 m to 5 m with outlet



Extraction set - one-piece boom

- » Flexible operation
- » Large capture area



Applications

- » High levels of smoke and dust
- » Non-stop operation
- » Welding fumes, gases, vapours, light dusts

Benefits

- » Reduced tripping hazard by attaching tools or wire feed unit to the boom with carriage
- » Very quiet due to housing of cast silumin
- » 40% less adjustment of the exhaust arm needed due to exhaust hood design
- » User-friendly due to particularly smooth movement of the hood with one hand

Properties

- » 360 degrees rotating exhaust hood with damper
- » Self-supported by internal springs
- » Fan made of spark-proof cast silumin
- » Boom with 50 kg load capacity
- » Boom with integrated C-rail with carriage

Scope Of Supply

- » Fan
- » Exhaust arm with hood
- » Wall bracket
- » Motor protection switch
- » Set of connecting material
- » Connecting pipe extendable from 1,25 m to 5 m with outlet

Technical Data

Basic data	
Power supply	3 x 400 V / 50 Hz
Noise level	73 dB(A)
Additional information	
Fan type	Radial fan

Order Data

Art. No.	Description	Length of exhaust arm	Length of boom	Extraction capacity	Motor power	Rated current
79 205 201	5 m Arm, flexible exhaust arm	3 m	2 m	950 m ³ /h	0.75 kW	1.5 A
79 206 201	6 m Arm, flexible exhaust arm	4 m	2 m	950 m ³ /h	0.75 kW	1.5 A
79 007 201	7 m Arm, flexible exhaust arm	4 m	3 m	1000 m ³ /h	1.1 kW	2.3 A
79 705 201	5m Arm, rigid metal tube arm	3 m	2 m	950 m ³ /h	0.75 kW	1.5 A
79 706 201	6 m Arm, rigid metal tube arm	4 m	2 m	950 m ³ /h	0.75 kW	1.5 A
79 507 201	7m Arm, rigid metal tube arm	4 m	3 m	1000 m ³ /h	1.1 kW	2.3 A

Extraction set - two-piece boom

- » Flexible operation
- » Large capture area



Scope Of Supply

- » Fan
- » Exhaust arm with hood
- » Boom
- » Motor protection switch
- » Set of connecting material
- » Connecting pipe extendable from 1,25 m to 5 m with outlet

Technical Data

Basic data	
Power supply	3 x 400 V / 50 Hz
Noise level	73 dB(A)
Additional information	
Fan type	Radial fan

Applications

- » High levels of smoke and dust
- » Non-stop operation
- » Welding fumes, gases, vapours, light dusts

Benefits

- » Very quiet due to housing of cast silumin
- » 40% less adjustment of the exhaust arm needed due to exhaust hood design
- » User-friendly due to particularly smooth movement of the hood with one hand
- » Reduced tripping hazard by attaching tools or wire feed unit to the boom with carriage

Properties

- » 360 degrees rotating exhaust hood with damper
- » Fan made of spark-proof cast silumin
- » Boom with integrated C-rail with carriage

Order Data

Art. No.	Description	Length of exhaust arm	Length of boom	Extraction capacity	Motor power	Rated current
79 307 201	7 m Arm, flexible exhaust arm	3 m	2,5 + 1,5 m	1000 m ³ /h	1.1 kW	2.3 A
79 308 201	8 m Arm, flexible exhaust arm	4 m	2,5 + 1,5 m	900 m ³ /h	1.1 kW	2.3 A
79 409 201	9 m Arm, flexible exhaust arm	3 m	4 + 2 m	1000 m ³ /h	1.1 kW	2.3 A
79 410 201	10 m Arm, flexible exhaust arm	4 m	4 + 2 m	1000 m ³ /h	1.1 kW	2.3 A
79 807 201	7 m Arm, rigid metal tube arm	3 m	2,5 + 1,5 m	900 m ³ /h	1.1 kW	2.3 A
79 808 201	8 m Arm, rigid metal tube arm	4 m	2,5 + 1,5 m	1000 m ³ /h	1.1 kW	2.3 A
79 909 201	9m Arm, rigid metal tube arm	3 m	4 + 2 m	1000 m ³ /h	1.1 kW	2.3 A
79 910 201	10 m Arm, rigid metal tube arm	4 m	4 + 2 m	1000 m ³ /h	1.1 kW	2.3 A





Replacement hood

For exhaust sets

Art. No.	Description
79 103 048	Lighting kit incl. exhaust hood, 2 x 5 W LED lights, trafo-box (original fitted)
79 103 034	Lighting kit incl. Exhaust hood, 2 x 5 W LED lights, Trafo-Box (retrofit for exhaust arm)



Replacement hood

Exhaust hood for the exhaust arms and telescopic exhaust arms, incl. swivel joint and fastening.

Art. No.	Description
79 103 00	Exhaust hood



Wall bracket for fan

For the connection of hoses, for fans up to 2,200 m³/h

Art. No.	Description
93 002	For 1 hose Ø100mm
93 001	For 1 hose Ø150mm
93 005	For 1 hose Ø160mm
93 003	For 2 hoses Ø100mm
93 004	For 2 hoses Ø150mm
93 006	For 2 hoses Ø160mm



Connecting material

Complete set to fasten an outgoing air hose, diam. 160 mm, to the air escape side of the ventilator or to the wall bracket of an exhaust arm.

Art. No.	Description
93 018	Set of connecting material Ø160 mm



Connecting pipe

Ø 160 mm out of multilayer aluminium foil, extendable from 1,25 m to 5 m max.

Art. No.	Description
93 200	Connecting pipe Ø160mm



Rubber rings

Art. No.	Description
106 0290	Rubber rings set of 10



Motor protection switches

The following motor protection switches can be used for the electrical connection of KEMPER fans. In the following table you can find the corresponding switch easily.

Art. No.	Description
94 170 124	Motor protection switch for fan 92 101, 92 103, 92 106, 0,55 kW · 3 x 400 V · 50 Hz
94 170 119	Motor protection switch for fan 92 102, 0,55 kW · 1 x 230 V · 50 Hz
94 170 123	Motor protection switch for fan 92 104, 0,75 kW · 3 x 400 V · 50 Hz
94 170 118	Motor protection switch for fan 92 105, 0,75 kW · 1 x 230 V · 50 Hz
94 170 121	Motor protection switch for fan 92 104 100, 1,10 kW · 3 x 400 V · 50 Hz
94 170 122	Motor protection switch for fan 92 104 116, 1,10 kW · 3 x 500 V · 50 Hz
94 170 120	Motor protection switch for fan 92 215, 1,50 kW · 3 x 400 V · 50 Hz
94 170 116	Motor protection switch for fan 92 215 111, 1,50 kW · 1 x 230 V · 50 Hz



Wall bracket for fan

For the connection of hoses, for fans up to 2,200 m³/h

Art. No.	Description
93 002	For 1 hose Ø100mm
93 001	For 1 hose Ø150mm
93 005	For 1 hose Ø160mm
93 003	For 2 hoses Ø100mm
93 004	For 2 hoses Ø150mm
93 006	For 2 hoses Ø160mm



Exhaust hose with nozzle

Art. No.	Description
93 082	Exhaust hose Ø100mm, length 6,0 m, incl. exhaust hood with magnetic foot
93 083	Exhaust hose Ø150mm, length 6,0 m, incl. exhaust hood with magnetic foot
79 103 31	Exhaust hood with magnetic foot, including exhaust hose, Ø150mm, length 6,0 m
93 087	Exhaust hose, Ø250mm, length 6,0 m, incl. exhaust hood with magnetic foot
93 087 100	Exhaust hose Ø250mm, length 10,0 m, incl. exhaust hood with magnetic foot



Exhaust hood with magnetic foot

Art. No.	Description
79 103 31	Exhaust hood with magnetic foot, including exhaust hose, Ø150mm, length 6,0 m



Exhaust hood with magnetic foot

Art. No.	Description
79 103 31	Exhaust hood with magnetic foot, including exhaust hose, Ø150mm, length 6.0 m



Exhaust hose with nozzle

Art. No.	Description
93 082	Exhaust hose Ø100mm, length 6,0 m, incl. exhaust hood with magnetic foot
93 083	Exhaust hose Ø150mm, length 6,0 m, incl. exhaust hood with magnetic foot
93 087	Exhaust hose, Ø250mm, length 6,0 m, incl. exhaust hood with magnetic foot
93 087 100	Exhaust hose Ø250mm, length 10,0 m, incl. exhaust hood with magnetic foot



Outgoing air hose

Art. No.	Description
93 084	Outgoing air hose, Ø160mm, length 6.0 m
93 088	Outgoing air hose Ø250mm, length 6,0 m

High vacuum extraction hose up to 85°C



Applications

- » extraction systems
- » Laser technology
- » Machine and plant construction

Properties

- » Ultraflexible
- » axial and radial spring reinforcement
- » Temperature range : 0°C to +85°C
- » PVC extraction hose with material reinforcement by spring steel spiral

Order Data

Art. No.	Description
93 070 004	length 2,5 m, Ø 45 mm
93 070 005	length 5 m, Ø 45 mm
93 070 006	Length 10 m, Ø 45 mm

High temperature hose 250 °C



Applications

- » Extraction of hot air or gases at exhaust systems
- » Extraction of hot vapours and gases

Properties

- » Fire retardant and compressible
- » Ultraflexible
- » Temperature range : -20 °C to +250 °C, short term +300 °C
- » Silicone-coated glass fibre fabric

Order Data

Art. No.	Description
114 0732	Length 2,5 m, Ø 150 mm
114 0733	Length 5 m, Ø 150 mm
114 0734	Length 7,5 m, Ø 150 mm
114 0735	Length 10 m, Ø 150 mm
114 0736	Length 2,5 m, Ø 160 mm
114 0737	Length 5 m, Ø 160 mm
114 0738	Length 7,5 m, Ø 160 mm
114 0739	Length 10 m, Ø 160 mm

Order Data

Art. No.	Description
114 0740	Length 2,5 m, Ø 200 mm
114 0741	Length 5 m, Ø 200 mm
114 0742	Length 7,5 m, Ø 200 mm
114 0743	Length 10 m, Ø 200 mm
114 0744	Length 2,5 m, Ø 250 mm
114 0745	Length 5 m, Ø 250 mm
114 0746	Length 7,5 m, Ø 250 mm
114 0747	Length 10 m, Ø 250 mm

Vehicle exhaust gas hoses



Applications

- » Motor driven and spring operated hose reels, extraction rail channels as well as wall mounted units and vehicle exhaust extraction units for emission tests

Properties

- » Scouring protection plate protects against abrasion at the outer layer
- » Lightweight highflexible polyester thread with TPE-layer
- » Resistant against oil, grease and solvents
- » Temperature range : up to +150 °C, short term +170 °C

Order Data

Art. No.	Description
114 0824	Length 2,5 m, Ø 75 mm
114 0825	Length 5 m, Ø 75 mm
114 0826	Length 7,5 m, Ø 75 mm
114 0827	Length 10 m, Ø 75 mm
114 0828	Length 2,5 m, Ø 100 mm
114 0829	Length 5 m, Ø 100 mm
114 0830	Length 7,5 m, Ø 100 mm
114 0831	Length 10 m, Ø 100 mm
114 0764	Length 2.5 m, Ø 125 mm
114 0765	Length 5 m, Ø 125 mm
114 0766	Length 7.5m, Ø 125 mm
114 0767	Length 10 m, Ø 125 mm

Order Data

Art. No.	Description
114 0768	Length 2.5m, Ø 150 mm
114 0769	Length 5 m, Ø 150 mm
114 0770	Length 7.5 m, Ø 150 mm
114 0771	Length 10 m, Ø 150 mm
114 0772	Length 2.5 m, Ø 200 mm
114 0773	Length 5 m, Ø 200 mm
114 0774	Length 7,5 m, Ø 200 mm
114 0775	Length 10 m, Ø 200 mm
114 0832	Length 2,5 m, Ø 250 mm
114 0833	Length 5 m, Ø 250 mm
114 0834	Length 7,5 m, Ø 250 mm
114 0835	Length 10 m, Ø 250 mm

Vehicle exhaust gas hose up to 300 °C

Applications

- » Extraction of engine exhaust gases up to max. +300°C
- » Motor driven and spring operated hose reels, extraction rail channels as well as wall mounted units and vehicle exhaust extraction units for emission tests

Properties

- » Scouring protection plate protects against abrasion at the outer layer
- » Resistant against oil, grease and solvents
- » Special coated, textile high temperature fabric
- » Fire retardant and compressible



Order Data

Art. No.	Description
114 0776	Length 2,5m, Ø 75 mm
114 0777	Length 5 m, Ø 75 mm
114 0778	Length 7,5 m, Ø 75 mm
114 0779	Length 10 m, Ø 75 mm
114 0780	Length 2,5m, Ø 100 mm
114 0781	Length 5 m, Ø 100 mm
114 0782	Length 7,5 m, Ø 100 mm
114 0783	Length 10 m, Ø 102 mm
114 0784	Length 2,5 m, Ø 125 mm
114 0785	Length 5 m, Ø 125 mm
114 0786	Length 7,5 m, Ø 125 mm
114 0787	Length 10 m, Ø 125 mm

Order Data

Art. No.	Description
114 0788	Length 2,5 m, Ø 150 mm
114 0789	Length 5 m, Ø 150 mm
114 0790	Length 7,5 m, Ø 150 mm
114 0791	Length 10 m, Ø 150 mm
114 0792	Length 2,5 m, Ø 200 mm
114 0793	Length 5 m, Ø 200 mm
114 0794	Length 7,5 m, Ø 200 mm
114 0795	Length 10 m, Ø 200 mm
114 0836	Length 2,5 m, Ø 250 mm
114 0837	Length 5 m, Ø 250 mm
114 0838	Length 7,5 m, Ø 250 mm
114 0839	Length 10 m, Ø 250 mm

Exhaust Gas Hose/ High Temperature Hose

Applications

- » For example suitable for motor power testing stations

Properties

- » Scouring protection plate protects against abrasion at the outer layer
- » Resistant against oil, grease and solvents
- » Double ply high temperature fabric, reinforced with stainless steel wire
- » Flame resistant



Order Data

Art. No.	Description
114 0796	Length 2,5m, Ø 75 mm
114 0797	Length 5m, Ø 75 mm
114 0798	Length 7,5m, Ø 75 mm
114 0799	Length 10 m, Ø 75 mm
114 0800	Length 2,5m, Ø 100 mm
114 0801	Length 5m, Ø 100 mm
114 0802	Length 7,5m, Ø 100 mm
114 0803	Length 10 m, Ø 100 mm
114 0804	Length 2,5m, Ø 125 mm
114 0805	Length 5m, Ø 125 mm
114 0806	Length 7,5m, Ø 125 mm
114 0807	Length 10 m, Ø 125 mm
114 0748	Length 2,5 m, Ø 150 mm
114 0749	Length 5 m, Ø 150 mm

Order Data

Art. No.	Description
114 0750	Length 7,5 m, Ø 150 mm
114 0751	Length 10 m, Ø 150 mm
114 0752	Length 2,5 m, Ø 160 mm
114 0753	Length 5 m, Ø 160 mm
114 0754	Length 7,5 m, Ø 160 mm
114 0755	Length 10 m, Ø 160 mm
114 0756	Length 2,5 m, Ø 200 mm
114 0757	Length 5 m, Ø 200 mm
114 0758	Length 7,5 m, Ø 200 mm
114 0759	Length 10 m, Ø 200 mm
114 0760	Length 2,5 m, Ø 250 mm
114 0761	Length 5 m, Ø 250 mm
114 0762	Length 7,5 m, Ø 250 mm
114 0763	Length 10 m, Ø 250 mm



KEMPER

DESMAN

KEMPER

Mini

Safe Change Filter - SCF



High Vacuum Extraction

Disposable Filter

MiniFil 64

Cleanable Filter

Dusty 66

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MiniFil

- » High vacuum extraction
- » Safe filter change



Technical Data

Filter	
Filter stages	3
Filter method	Disposable filter
Filter surface	12 m ²
Type of filter	Safe Change Filter
Filter material	Non-woven polyester
Filter efficiency	> 99 %
Filter class	H13
Additional filters	Cyclone pre-filter
Additional filters	Pre-filter (aluminum)
Basic data	
Extraction capacity	150 m ³ /h
Dimensions (w x d x h)	425 x 365 x 790 mm
Weight	20 kg
Turbine	2pce. each 1kW
Motor power	2 kW
Power supply	1 x 230 V / 50 Hz
Rated current	10 A
Noise level	74 dB(A)
Additional information	
IFA-Certification	W3-Approved
Fan type	Suction turbine
Hose connection	Ø 45 mm



Applications

- » Also suitable for high-alloy steel
- » Medium levels of smoke and dust
- » Occasional to frequent use
- » Nozzles, funnel and torch extraction

Properties

- » Filter monitoring
- » Stepless speed control
- » Safe Change Filter
- » Start/Stop-Automatic for alternating current
- » Spark separator

Benefits

- » Energy-saving operation with integrated automatic start/stop function for AC/alternating current
- » Increased safety with safe filter change
- » Ideal for changing workplaces due to its low weight and optional trolley
- » Optimal adjustment to the welding process with stepless speed control

Variants

- » Other voltages

Order Data

Art. No.	Description
65 150	MiniFil

Replacement Parts and Accessories

Art. No.	Description
109 0467	Replacement filter 12 m ²
6515001	Trolley for MiniFil





Dusty

- » High vacuum extraction
- » Manual filter cleaning



Applications

- » Low to medium levels of smoke and dust
- » Nozzles, funnel and torch extraction
- » Repair work
- » Alternating work places

Properties

- » Manual filter cleaning
- » Cleaning indicator
- » KemTex® ePTFE filter cartridge
- » Portable and mobile
- » Two suction nozzles
- » Stepless speed control

Benefits

- » Best health protection for employees by use of KemTex® ePTFE filter cartridges with surface filtration
- » For mobile use due to light weight
- » Optimal adjustment to the welding process with stepless speed control

Variants

- » Other voltages

Technical Data

Filter	
Filter stages	1
Filter method	Cleanable filter
Filter cleaning method	Manual
Filter surface	1.35 m ²
Type of filter	Filter cartridge
Filter material	ePTFE membrane
Filter efficiency	> 99.9 %
Dust classification	M
Basic data	
Extraction capacity	260 m ³ /h
Dimensions (w x d x h)	300 x 360 x 641 mm
Weight	24 kg
Motor power	1,6 kW
Power supply	1 x 230 V / 50 Hz
Rated current	8.7 A
Noise level	74 dB(A)
Additional information	
Fan type	Suction turbine
Hose connection	Ø 2 x 45 mm

Order Data

Art. No.	Description
63 100	KEMPER Dusty

Replacement Parts and Accessories

Art. No.	Description
109 0432	1,35 m ² spare filter with KemTex® ePTFE membrane



Suitable for alveolar exchangeable dusts
separation > 99 % of particles < 0,4 µm

Applications

- » High levels of smoke and dust
- » Non-stop operation
- » Torch extraction

Properties

- » Automatic filter cleaning, pressure-controlled
- » Side channel compressor
- » KemTex® ePTFE filter cartridge
- » KEMPER-Cloud connection via mobile network*
- » Contamination-free dust disposal in one-way containers.
- » Control via touch panel

Benefits

- » Best health protection for employees by use of KemTex® ePTFE filter cartridges with surface filtration
- » Comfortable flue gas extraction torch selection via touch display with automatic volume flow adjustment
- » Uninterrupted continuous operation due to automatically controlled filter cleaning
- » Fleet management, remote maintenance and pre-noise maintenance using autarkic networking via mobile radio to the KEMPER cloud*

Accessories

- » Automatic start/stop
- » Suction hose
- » Slot and funnel nozzle
- » Connector for welding torches
- » KEMPER-Connect Cloud

Order Data

Art. No.	Description
82 400	VacuFil 125

Replacement Parts and Accessories

Art. No.	Description
109 0434	4 m ² KemTex® ePTFE membrane cartridge filter
109 0472	Pre-filter mats (10 per set)
119 0951	Dust collection bin for VacuFil 125
94 102 702	For MaxiFil, MaxiFil Clean, VacuFil 125: Automatic start/stop sensor, 5 m connection cable

*Cloud function: Cloud use free of charge of 12 months.



Suitable for alveole exchangeable dusts
separation > 99 % of particles < 0,4 µm



VacuFil 125

- » Single place high vacuum extraction
- » Automatic volume flow adjustment



Technical Data

Filter	
Filter stages	2
Filter method	Cleanable filter
Filter cleaning method	Rotating nozzle
Filter surface	4 m ²
Type of filter	Filter cartridge
Filter material	ePTFE membrane
Filter efficiency	> 99.9 %
Dust classification	M
Basic data	
Extraction capacity	125 m ³ /h
Dimensions (w x d x h)	635 x 885 x 1120 mm
Weight	130 kg
Motor power	1.5 kW
Power supply	1 x 230 V / 50 Hz
Rated current	5.8 A
Noise level	66 dB(A)
Additional information	
Fan type	Side channel blower
Compressed air supply	5 - 6 bar
Hose connection	Ø 45 mm
Air outlet	63 mm





KEMPER[®]

VacuFil 125

VacuFil 500

- » High vacuum extraction
- » High performance

Applications

- » High levels of smoke and dust
- » Non-stop operation
- » Torch extraction, robot extraction
- » Suction nozzles or high vacuum exhaust arms

Properties

- » Automatic filter cleaning, pressure-controlled
- » Dust collection container
- » Filter monitoring
- » Side channel compressor
- » KemTex® ePTFE filter cartridge
- » 4 x 45mm and 1 x 100mm hose/duct connector

Benefits

- » High efficiency due to automatic filter cleaning
- » Best health protection for employees by use of KemTex® ePTFE filter cartridges with surface filtration
- » Great flexibility in version with four separate connections
- » Uninterrupted continuous operation due to automatically controlled filter cleaning

Accessories

- » Automatic start/stop
- » Suction hose
- » Slot and funnel nozzle
- » Connector for welding torches



Order Data

Art. No.	Description
82 755	4 connection ports, Ø 45mm
82 756	4 intake sockets NW 45 mm and automatic flow rate adjustment

Replacement Parts and Accessories

Art. No.	Description
109 0440	10 m ² KemTex® ePTFE membrane cartridge filter
94 102 704	For VacuFil 500 and Cartridge Filter: Automatic start/stop sensor, 5 m connection cable

Technical Data

Filter	
Filter stages	1
Filter method	Cleanable filter
Filter cleaning method	Rotating nozzle
Filter surface	10 m ²
Type of filter	Filter cartridge
Filter material	ePTFE membrane
Filter efficiency	> 99.9 %
Dust classification	M
Basic data	
Extraction capacity	500 m ³ /h
Dimensions (w x d x h)	655 x 1197 x 1377 mm
Weight	264 kg
Motor power	5,5 kW
Power supply	3 x 400 V / 50 Hz
Rated current	11 A
Noise level	74 dB(A)
Additional information	
Fan type	Side channel blower
Compressed air supply	5 - 6 bar





we clean air.

Ducting systems for VacuFil 500



A ducting system is used to transport the contaminated air from where it is collected to the extraction and filtration system. The system will be designed and assembled according to your wishes. The complete system is galvanized and consists of pipes, clamps, connectors, T-pieces, reducers and all other necessary pipe parts. All components are wear resistant because they are made of steel.



Ducting systems for VacuFil 500

Pos.	Art. No.	Description
1	250 000 100 300	Duct 3 m, Ø 100 mm, Gauge: 0,6 mm, 4,2 kg
1	250 000 100 600	Duct 6 m, Ø 100 mm, Gauge: 0,6 mm, 8,4 kg
2	250 030 100 015	15° Bend, Ø 100 mm, Length: 13 mm, 0,15 kg
2	250 030 100 030	30° Bend, Ø 100 mm, Length: 27 mm, 0,18 kg
2	250 030 100 045	45° Bend, Ø 100 mm, Length: 41 mm, 0,21 kg
2	250 030 100 060	60° Bend, Ø 100 mm, Length: 64 mm, 0,33 kg
2	250 030 100 090	90° Bend, Ø 100 mm, Length: 100 mm, 0,31 kg
3	250 060 100 000	Male sleeve coupler, Ø 100 mm, Length: 80 mm, 0,12 kg
4	250 070 100 000	Female sleeve coupler, Ø 100 mm, Length: 97 mm, 0,1 kg
6	250 100 100 063	T-piece, Ød1: 100 mm, Ød3: 63 mm, Length: 125 mm
6	250 100 100 080	T-piece, Ød1: 100 mm, Ød3: 80 mm, Length: 97 mm
6	250 100 100 100	T-piece, Ød1: 100 mm, Ød3: 100 mm, Length: 130 mm
7	250 110 100 063	Branching saddle, Pipe diameter: 100 mm, 0,1 kg
5	250 150 100 063	Y-piece, Ød1 100 mm, Ød3: 63 mm, Ød4 63 mm, 0,9 kg
8	250 200 100 063	Reducer, Ød1: 100 mm, Ød2: 63 mm
8	250 200 100 080	Reducer, Ød1: 100 mm, Ød2: 80 mm
9	250 260 100 000	End cap for formed pieces, Ø 100 mm, Length: 40 mm, 0,1 kg
10	250 250 100 000	End cap for ducts, Ø 100 mm, Length: 10 mm, 0,1 kg

WeldFil HV

- » High vacuum extraction
- » Scalable, central solution



Accessories

- » Automatic dust disposal - DustEvac
- » Automatic suction power regulation
- » External On/Off
- » Spark separator – SparkTrap
- » Weatherproof housing for outdoor installation

Applications

- » High levels of smoke and dust
- » Welding torch extraction, nozzles and high vacuum exhaust arms
- » Can be installed outdoors
- » Large welding shops or training centres

Properties

- » Automatic filter cleaning, pressure-controlled
- » Control via touch screen
- » KemTex® ePTFE filter cartridges
- » Dust collection container with pneumatic lifting device
- » Modular design

Benefits

- » Contamination-free dust collection due to compressed air fixation of dust collection containers
- » Uninterrupted continuous operation due to automatic differential pressure-controlled filter cleaning
- » Little noise emission due to a particularly low noise level
- » Expandable due to simple modular construction
- » Considerable energy cost savings by using the automatic extraction volume control
- » Convenient operation due to intelligent control via touch screen with diagnostic system
- » Flexible integration of the control system into third-party systems such as cutting equipment due to potential-free contacts
- » Best health protection for employees by use of KemTex® ePTFE cartridges with surface filtration

Order Data

Art. No.	Extraction capacity	Vacuum	Filter surface total	Motor power	Dimensions (w x d x h)
91 0330 030	1650 - 2376 m ³ /h	16000 - 13000 Pa	30 m ²	22 kW	2375 x 1413 x 2015 mm
91 0400 040	2000 - 2880 m ³ /h	15500 - 13000 Pa	40 m ²	30 kW	2826 x 1413 x 2015 mm
91 0450 060	2250 - 3240 m ³ /h	2000 - 10500 Pa	60 m ²	37 kW	2826 x 1413 x 2015 mm

Spare filter for MiniFil

Art. No.	Description
109 0467	Replacement filter



Spare filter for Dusty

Art. No.	Description
109 0432	1,35 m ² spare filter with KemTex® ePTFE membrane



Spare filter for VacuFil 125

Art. No.	Description
109 0434	4 m ² KemTex® ePTFE membrane cartridge filter
109 0472	Pre-filter mats (10 per set)



Dust collection bin for VacuFil 125

Art. No.	Description
119 0951	Dust collection bin for VacuFil 125



Spare filter for VacuFil 500

Art. No.	Description
109 0440	10 m ² KemTex® ePTFE membrane cartridge filter





Spare filter

Art. No.	Description
109 0002	2-step-combination filter (particulate and activated charcoal filter)
109 0034	Pre-filter mats, (10 per set)



Replacement filter for Mini-Weldmaster

Art. No.	Description
109 0009	Main filter
109 0034	Pre-filter mats, (10 per set)
109 0008	Activated charcoal filter



Automatic start/stop

Art. No.	Description
94 102 704	For VacuFil 500 and Cartridge Filter: Automatic start/stop sensor, 5 m connection cable
94 102 702	For MaxiFil, MaxiFil Clean, VacuFil 125: Automatic start/stop sensor, 5 m connection cable



Trolley for MiniFil

Art. No.	Description
6515001	Trolley for MiniFil



High vacuum extraction hose up to 85°C

Art. No.	Description
93 070 004	length 2,5 m, Ø45mm
93 070 005	length 5 m, Ø45mm
93 070 006	Length 10 m, Ø45mm

Exhaust air spigot

Art. No.	Description
141 6545	Exhaust air spigot for MiniFil



Outgoing air hose

Art. No.	Description
114 0419	Ø80mm, length: 5,0 m
114 0290	Ø80mm, length: 7,5 m
114 0389	Ø80mm, length: 10,0 m



Slit nozzle

Art. No.	Description
232 0008	Slit nozzle, 300 mm, with magnetic foot
232 0009	Slit nozzle, 600 mm, with magnetic foot



Funnel nozzle

Art. No.	Description
232 0010	Funnel nozzle flexible, with magnetic foot



Adaptor for welding torches

For connection with a hose, Ø 45 mm

Art. No.	Description
106 0071	Adaptor for welding torches with integrated extraction 42 - 44 mm
106 0104	Adaptor for welding torches with integrated extraction 39 - 42 mm
106 0084	Adaptor for welding torches with integrated extraction 30 - 38 mm





KEMPER
CleanAirTower

General Ventilation Systems

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» Indoor Ventilation Systems



Fumes, welding fumes or just that the air is thick with dust in your workshop?

Capturing harmful substances at the point where they arise is still the most effective method of extraction and also is mentioned right away in all regulations. This is the only way in which practically all welding fumes and other harmful substances can be captured.

All the same, in some work environments source capture units are insufficient or can only be used with difficulty, for example in the case of:

- » large work pieces
- » changing welding positions or
- » where work places are widely spaced

This is where KEMPER Indoor Ventilation Systems help you to provide optimum health protection for your employees and to keep the air in your workshops clean. If source extraction units cannot be used or are insufficient, welding fumes and other harmful substances can accumulate and form a layer of smoke above the area where metal working is taking place.

By installing a hall ventilation system, you create a safe and above all clean work environment where your employees feel comfortable and machines and the building remain clean. This not only benefits you, but also saves huge cleaning costs. Not to mention the huge savings on the investment and operation of KEMPER indoor ventilation systems.

In workshops and metal-working companies there are many and varied conditions and applications. For this reason, based on its many years of experience, KEMPER provides various different indoor ventilation systems.

Depending on wishes and requirements, these can be used individually or in combination. So for example, it may not be necessary to equip the entire area. Indeed, using KEMPER systems, it may be possible to create individual, new work areas.

CleanAirTower SF 9000

- » Stand-alone installation with memory filter
- » Principle of layer ventilation

Applications

- » Low to medium levels of smoke and dust
- » To complement local exhaust ventilation systems
- » Environments with changing sources of smoke and dust
- » Workstations, Workshops, Logistic and distribution centres

Properties

- » 360 degree extraction radius
- » KEMPER-Cloud connection via mobile network*
- » Slow, low-impulse air circulation
- » Displacement flow principle, recommended by health and safety bodies
- » Control via touch panel
- » System barely generates air turbulence
- » TurboBoost Function

Benefits

- » Fleet management, remote maintenance and pre-noise maintenance using autarkic networking via mobile radio to the KEMPER cloud*
- » Minimization of heating costs due to air recirculation and air distribution
- » No dust distribution into clean areas, as barely any air turbulence is created
- » Cost-effective installation or retrofit, as no ductwork is needed
- » Short-term increase in extraction performance due to TurboBoost function



Technical Data

	CleanAirTower SF 5000	CleanAirTower SF 9000
Art. No	390 400	390 450
Filter		
Filter stages	2	2
Filter method	Disposable filter	Disposable filter
Filter surface	50 m ²	100 m ²
Filter material	nano-cellulose	nano-cellulose
Filter efficiency	> 99.9 %	> 99.9 %
Dust classification	M	M
Basic data		
Extraction capacity	5,000 m ³ /h	9,000 m ³ /h
Height	2,660 mm	3,050 mm
Diameter	1,172 mm	1,172 mm
Weight	416 kg	446 kg
Motor power	3.35 kW	5.7 kW
Power supply	3 x 400 V / 50 Hz	3 x 400 V / 50 Hz
Rated current	5.2 A	9 A
Control voltage	24 V, DC	24 V, DC
Noise level	70 dB(A)	70 dB(A)
Additional information		
Fan type	Centrifugal fan with EC motor	Centrifugal fan with EC motor

Order Data

Art. No.	Description
390 400	CleanAirTower SF 5000
390 450	CleanAirTower SF 9000

*Cloud function: Cloud use free of charge of 12 months.

Replacement Parts and Accessories

Art. No.	Description
390 40 001	Main filter 50m ² for CleanAirTower SF 5000
390 45 001	Main filter 100m ² for CleanAirTower SF 9000

CleanAirTower

- » Stand-Alone Installation
- » Principle of layer ventilation



Applications

- » Workshops where local exhaust ventilation is not possible
- » To complement local exhaust ventilation systems
- » Environments with changing sources of smoke and dust
- » Workstations, Workshops, Logistic and distribution centres

Benefits

- » Minimization of heating costs due to air recirculation and air distribution
- » Increased safety with contamination-free dust disposal
- » No dust distribution into clean areas, as barely any air turbulence is created
- » Cost-effective installation or retrofit, as no ductwork is needed
- » Safe transportation and easy installation by crane eyes
- » Permanent operation by means of automatic dust disposal in dust collection bin

Properties

- » Automatic filter cleaning
- » Lifting eyes
- » 360° Inlet grill
- » KEMPER-Cloud connection via mobile network*
- » Contamination-free dust disposal in one-way containers.
- » Slow, low-impulse air circulation
- » Displacement flow principle, recommended by health and safety bodies
- » System barely generates air turbulence

Technical Data

Filter	
Filter stages	1
Filter method	Cleanable filter
Filter cleaning method	Rotating nozzle
Filter surface	20 m ²
Number filter elements	3
Filter surface total	60 m ²
Filter material	PTFE-membrane
Filter efficiency	> 99.9 %
Dust classification	M
Basic data	
Extraction capacity	6000 m ³ /h
Height	3622 mm
Diameter	1172 mm
Weight	666 kg
Motor power	5.5 kW
Power supply	3 x 400 V / 50 Hz
Rated current	11 A
Noise level	72 dB(A)
Additional information	
IFA-Certification	W3-Approved
Fan type	Radial fan, direct driven
Compressed air supply	5 - 6 bar

Order Data

Art. No.	Description
390 600	CleanAirTower - Cleanable filter

*Cloud function: Cloud use free of charge of 12 months.

Replacement Parts and Accessories

Art. No.	Description
109 0447	3 x 20 m ² KemTex® ePTFE membrane cartridge filter
149 0675	Dust collection bin for CleanAirTower (set of 3)
109 0541	Aluminum mesh pre-filter (set of 8)



360° intake
Consistent intake of the contaminated air

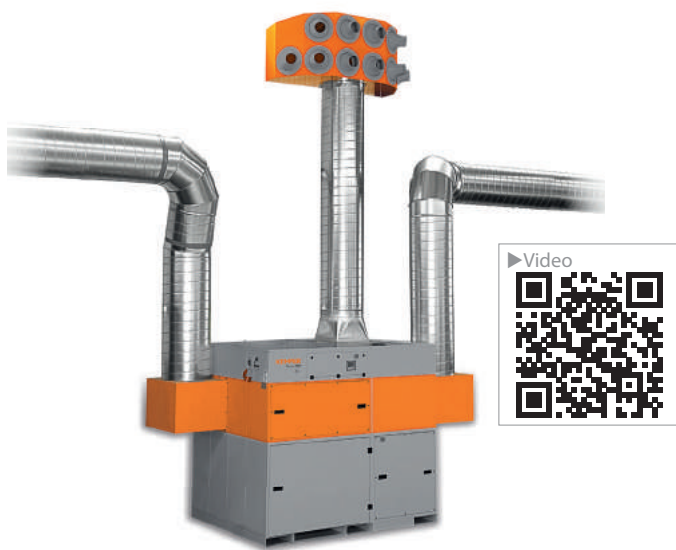


Bumper
The tower is equipped with specific impact protection

Low-impulse air circulation
No dust distribution into clean areas, as barely any air turbulence is created

KemJet

- » High performance nozzles
- » Air turbulence



Applications

- » Workshops where local exhaust ventilation is not possible
- » To complement local exhaust ventilation systems
- » Environments with changing sources of smoke and dust
- » For large work pieces or where work positions are well separated

Benefits

- » Fresh air distribution adaptable to the location of the plant as high-performance nozzles are adjustable by 30 degrees
- » Contamination-free dust collection due to compressed air fixation of dust collection containers
- » Uninterrupted continuous operation due to automatic differential pressure-controlled filter cleaning
- » Various outlet heights possible by using different pipe lengths
- » Little noise emission due to a particularly low noise level
- » Heating costs minimised by air recirculation
- » Quick and simple to set up
- » Convenient operation due to intelligent control via touch screen with diagnostic system

Properties

- » Automatic filter cleaning, pressure-controlled
- » Control via touch screen
- » KemTex® ePTFE filter cartridges
- » Dust collection container with pneumatic lifting device
- » High-performance nozzles adjustable by 30 degrees

Accessories

- » Automatic dust disposal - DustEvac
- » External On/Off
- » AirWatch
- » Stanchion support
- » Wall-mounting kit

Order Data

Art. No.	Extraction capacity	Filter surface total	Length of extraction duct	Nozzles	Air nozzles, range
99 880 0407	6000 m ³ /h	60 m ²	6000 mm	10 x 200 mm	approx. 30 m
99 880 0401	9000 m ³ /h	90 m ²	2 x 6.000 mm	12 x 200 mm	approx. 38 m
99 880 0414	13000 m ³ /h	120 m ²	2 x 9.000 mm	10 x 250 mm	approx. 45 m

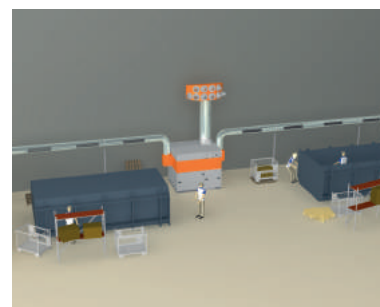
KemJet 6000

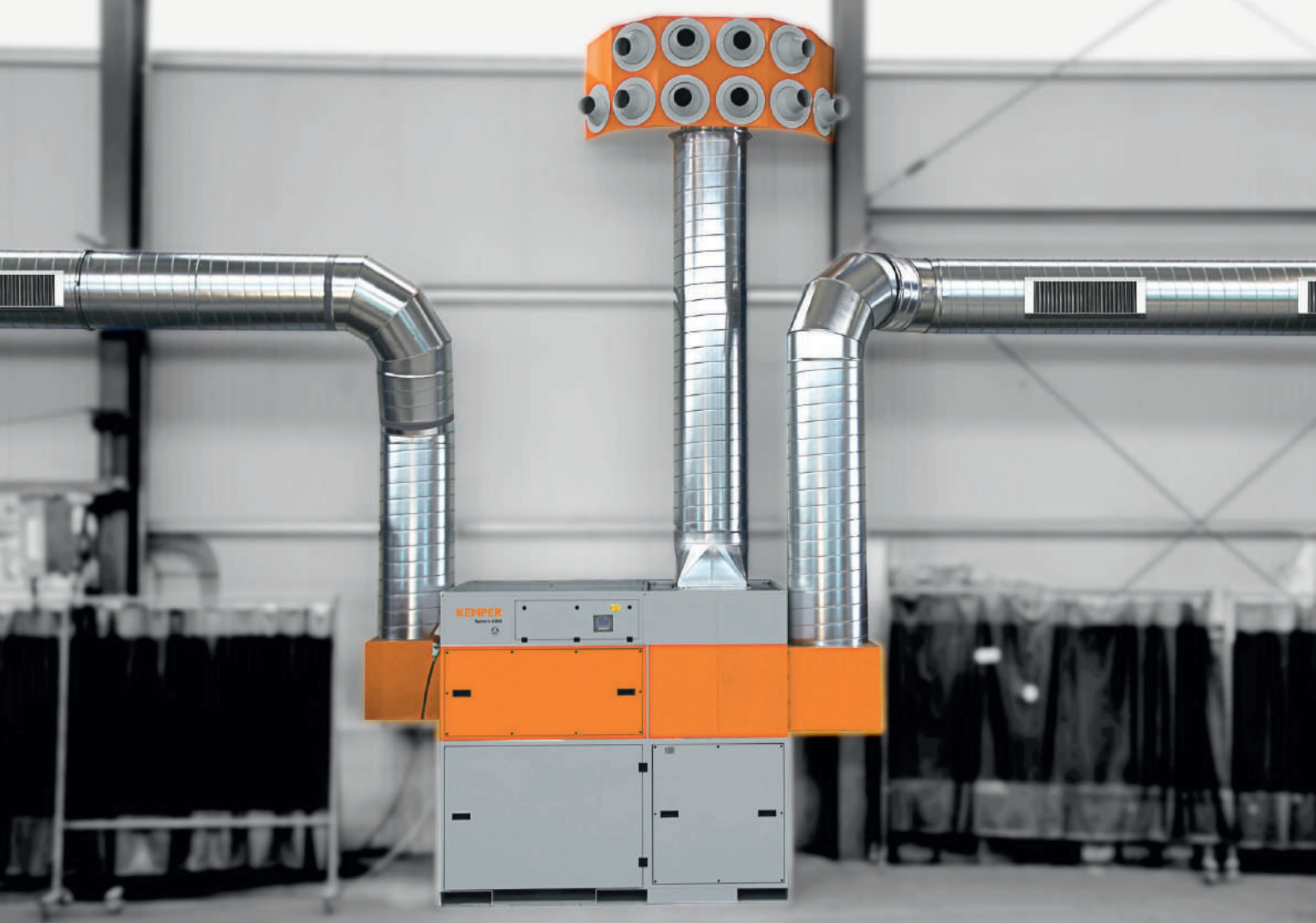


KemJet 9000



KemJet 13000





AirWatch

- » Monitors the air quality
- » Controls room-ventilation and extraction systems*



Applications

- » Monitoring and documentation of air quality/ dust concentration*
- » Workstations, production halls, logistic halls and warehouses
- » Efficient control of room-ventilation and extraction systems*

Benefits

- » Control: Do you comply with the target values you have set yourself? Easy to read thanks to LED illuminated area (green, yellow, red)
- » Security: By documenting the data through detailed measurements and storing it in the KEMPER cloud.*
- » Strengthening trust: Presentation of the effectiveness of occupational health and safety measures to employees at AirWatch itself, Smartphone, Tablet and PC*
- » Energy cost savings: via the connection between AirWatch, Cloud and KEMPER room ventilation and extraction systems (need-based ventilation control of the systems)*

Properties

- » Visual, laser-operated measurement methods
- » Individually adjustable limit values and alarm thresholds*
- » Fleet management via cloud connection*
- » Extensive evaluation options in the dashboard*
- » Displays particle count, size distribution, PM2.5, PM10, humidity and temperature on smartphone, tablet and PC*
- » KEMPER-Cloud connection via mobile network*

Accessories

- » KEMPER-Connect Cloud

Technical Data

Basic data	
Dimensions (D x H)	128 x 340 mm
Weight	2.9 kg
Power supply	1x100-240 V, 50/60 Hz
Power	10 W
Noise level	30 dB(A)
Radio standard	3G/Global
Frequency	Quad-band

Order Data

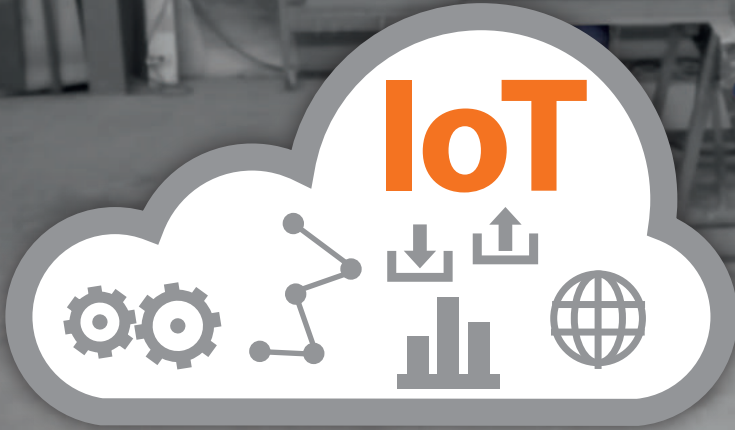
Art. No.	Description
390 200	AirWatch

Replacement Parts and Accessories

Art. No.	Description
390 251	Telescopic tripod for AirWatch
390 250	Wall bracket for AirWatch

*Cloud function: Cloud use free of charge of 12 months.





- » Surveillance of the air quality
- » Autarkic mobile network technology

- » Control of general ventilation and extraction systems
- » Fleet management via cloud-connection

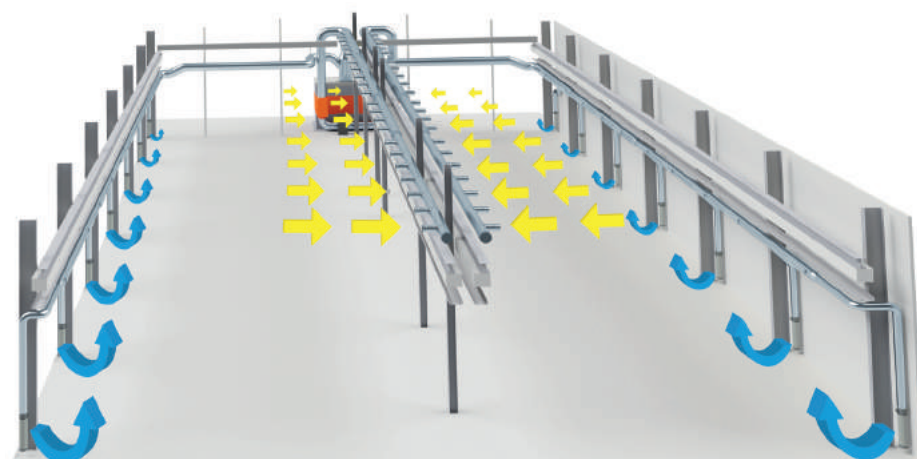
» General ventilation system concepts



Concept development individually tailored to your needs

Whether a displacement or a mixed ventilation system: a general ventilation system for welding fumes is more than just a supplement to spot extraction. It also secures the occupational safety for surrounding work areas. For occupational safety for welding, the following applies: The more dense smoke captured at the point of origin, the greater the chance of extracting all the hazardous particles from the air in the factory hall. For this reason, the relevant regulations state that harmful substances should be immediately collected at point of origin.

In practice however, things often work differently since each production hall and welding task is different. KEMPER therefore offers ventilation solutions as an extension of spot extraction or personal work safety based on the combined ventilation principle, displacement ventilation – also known as layer ventilation – or concepts combining both. We analyse your initial situation and work out a ventilation concept suitable for your production environment, taking into account your budget, energy efficiency and the best possible air quality for your hall.



Differences between layer ventilation and mixed ventilation

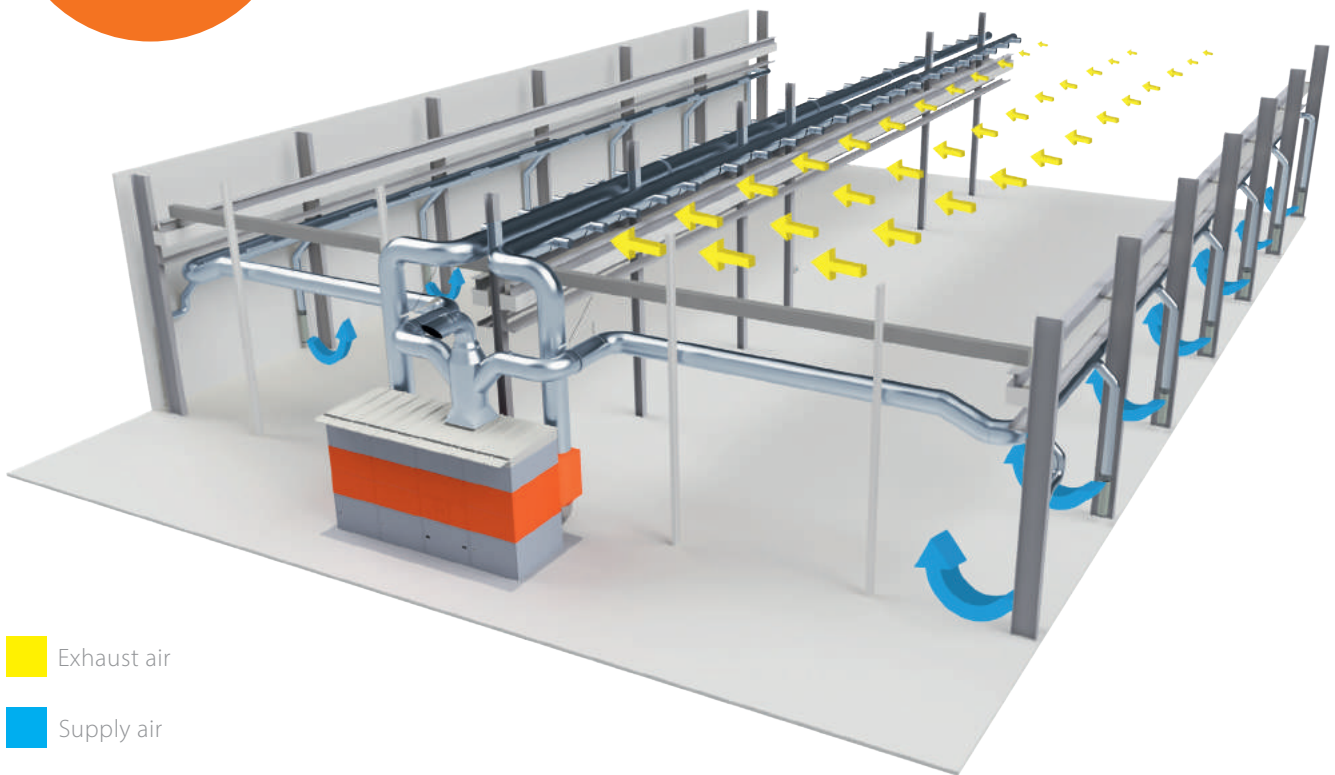
Layer ventilation / displacement ventilation

The rising, contaminated air is captured via inlet pipes at heights of four to six metres. Source outlet pipes near the floor return the filtered air back into the room at low velocity. The filtered air displaces the welding smoke and supports its thermal flow. The ducting systems are connected to the central extraction and filter system.

Mixed ventilation / push-pull

The push-pull ventilation system is an outlet and inlet system where the pipes are mounted opposite each other at a height of about four to six meters. The ducting systems are connected to a central extraction unit. The entire hall air is mixed with this air cleaning principle.

Save **up to 70%** on energy costs through air recirculation



- Exhaust air
- Supply air

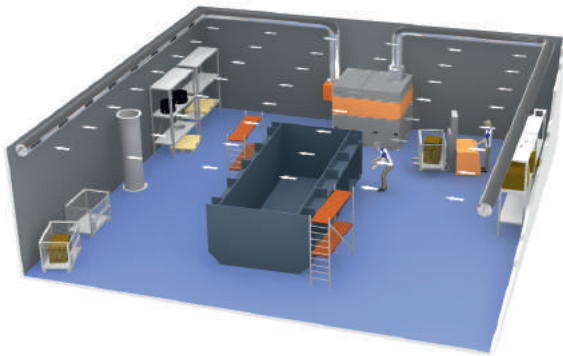
>>> Send us your project enquiry!

mail@kemper.co.uk



Push-Pull-System

- » Capturing and outlet opposite
- » Air turbulence



Applications

- » Low to medium levels of smoke and dust
- » Workshops where local exhaust ventilation is not possible
- » To complement local exhaust ventilation systems
- » Environments with changing sources of smoke and dust
- » For large work pieces or where work positions are well separated

Mode of operation

- » Outlet and inlet pipes (push-pull) are mounted opposite each other at a height of 4-6 m and connected to a central filter system
- » Contaminated, warm air rises and by the air flow from the outlet pipe is moved in a controlled manner towards the inlet
- » Contaminated air is extracted via the inlets and purified in the filter system
- » The clean air returns to the factory building via the outlets so the veil of smoke disappears

Accessories

- » Automatic dust disposal - DustEvac
- » External On/Off
- » AirWatch

Displacement Ventilation

- » Capturing and outlet separate
- » Low impulse routing of air flow



Applications

- » Medium to high levels of smoke and dust
- » Workshops where local exhaust ventilation is not possible
- » To complement local exhaust ventilation systems
- » Environments with changing sources of smoke and dust
- » For large work pieces or where work positions are well separated

Mode of operation

- » Outlet pipes are installed close to the floor, inlet pipes at a height of 4-6 m and connected to a central extraction and filter system
- » Contaminated, warm air rises, is collected through the inlet pipes and cleaned in the filter unit
- » The purified, clean air exits from the outlet pipes at low velocity near the floor
- » The warm, fresh air displaces the welding fumes towards the inlet pipes and at the workplaces a constant, circulating air stream is created

Accessories

- » Automatic dust disposal - DustEvac
- » External On/Off
- » AirWatch

Accessories and spare parts for AirWatch

Art. No.	Description
390 251	Telescopic tripod for AirWatch
390 250	Wall bracket for AirWatch



Accessories and spare parts for CleanAirTower SF

Art. No.	Description
390 40 001	Main filter 50m ² for CleanAirTower SF 5000
390 45 001	Main filter 100m ² for CleanAirTower SF 9000
109 05 49	Aluminum pre-filter



Accessories and spare parts for CleanAirTower

Art. No.	Description
109 0447	3 x 20 m ² KemTex® ePTFE membrane cartridge filter
109 0541	Aluminum mesh pre-filter (set of 8)
149 0675	Dust collection bin for CleanAirTower (set of 3)





Extraction Systems - Central

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Extraction and Filter Systems

for the construction of Central Extraction Systems



Features

- » The WeldFil Compact and WeldFil are ideally suited for setting up central extraction systems
- » Ideal for welding shops, grinding shops, training centres, robot production lines, etc.
- » Connection via duct systems with capturing devices from the KEMPER range
 - Exhaust arms and telescopic arms
 - Welding and grinding tables
 - Training welding tables
 - Extraction table for workshops
 - Exhaust hoods, e.g. for robots
 - Extraction booths, e.g. for automated processes
- » Wide range of accessories and lots of special equipment, such as
 - Spark separator, spark detector and spark extinguisher
 - Automated, demand-based suction power control
 - External control and monitoring

Benefits

- » Time savings in planning and construction due to modular system structure and complete product range from KEMPER
- » Legal and operational security thanks to careful layout by KEMPER specialists
- » Optimum adaptation to conditions due to the large product range and diversity of types of systems and special equipment
- » Huge savings in energy and follow-up costs thanks to automatic suction power control

Additional Equipment

Extraction and filter systems from KEMPER can be equipped with a range of additional features to meet your individual requirements.

- » An automatic extraction power control to adjust the extraction power to the actual demand and to keep operating, electricity and follow-up costs low.
- » The external on/off switches the extraction and filter system on or off according to demand and thus contributes to cost savings and increases operating convenience.
- » An external control panel facilitates the operation and monitoring of your KEMPER extraction and filter system, for example, if installed outdoors.
- » The KEMPER remote diagnostic and maintenance system for a rapid evaluation of error messages, and remote adjustment of possible faults.
- » Alarm by phone, SMS or e-mail to report any malfunctions and for monitoring extraction and filter systems in critical areas.
- » The installations of KEMPER Systems 8000 and 9000 can be equipped with an explosion relief panel to contain possible dust explosions.
- » The KEMPER SparkTrap is an additional spark trap which minimizes the risk of filter fire.
- » By using a spark extinguishing system that detects sparks and actively extinguishes them, the risk of filter fires can be almost entirely eliminated.



Extraction systems become capable of industrial 4.0. With new sensors in filter systems and the cloud-based monitoring portal **KEMPER-Connect**. The portal networks extraction systems, room ventilation systems and other devices on the basis of mobile network connectivity. Various dashboards give you an overview of relevant process data in real time. For extraction systems, this is important information such as motor temperature, differential pressure, motor power consumption, operating hours and status messages.

Advantages and features at a glance:

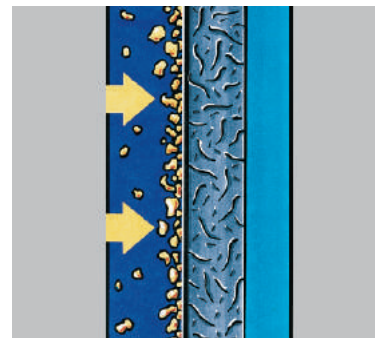
- » Autarkic networking via mobile network technology (no intervention in company networks necessary)
- » Overview of relevant process data in real time
- » Better control over plants - independent of location
- » Easier service and diagnosis through remote access
- » Reduced downtime of filter systems due to predictive maintenance
- » machine-to-machine communication
- » Rule-based functions for the automation of extraction technology
- » fleet management



Outstanding filter technology

Surface filtration

- › KemTex® ePTFE filter medium with laminated membrane layer
- › Unique microstructure composed of millions of randomly arranged fine fibres
- › Optimal filter cleaning properties as opposed to depth filtration
- › Separation even of ultrafine nanoparticles of up to 100 nanometres



Ideal for welding and cutting

Study by the AWS (American Welding Society) on particle distribution:

- › 98.9% of the dust particles generated are smaller than 400 nanometres
- › Ultrafine nanoparticles can penetrate into human cells
- › KemTex ePTFE membrane filters already have high separation in the nanoscale range

Filter shapes

Filter plates or filter cartridges are used depending on the filter system. The same high-quality filter material is always used.

Filter plates

- › Filter plates allow optimal use of the down-flow principle
- › Construction and welding of the filter pleats prevents the pleats choking up
- › 100% of the filter surface area is always available
- › Filter cleaning without moving parts using compressed air and inlet nozzles
- › Significantly longer service life of the filter elements and high cost savings



Filter cartridges

- › Less dust deposition due to being vertically installed
- › Movable filter pleats help the filter cleaning process
- › Uniform and gentle cleaning using rotating nozzle
- › Very long service life of the filter elements and rotating nozzles



Filter plates - Filter cartridges



Filter plates

Properties

- » Improved air flow due to down-flow principle
- » Robustly welded filter pleats that do not choke up
- » Filter cleaning without moving parts possible
- » Clean-air side inlet nozzles for compressed air
- » Horizontal installation in filter system

Benefits

- » No restriction over time because 100% of the filter surface is permanently available
- » Drastic reduction in costs resulting from significantly longer filter life
- » Less wear as no moving parts are required
- » Savings due to less compressed air consumption and lower energy costs
- » Time savings by ease of changing the filter plates due to horizontal installation

Automatic cleaning

- » Pressure-controlled breath-responsive cleaning by compressed air
- » A blast of compressed air from the integrated compressed air tank flows directly into the filter media
- » No need for rotating nozzles due to filter design
- » Significantly less wear since no moving parts are required

Filter cartridges

Properties

- » Large pleat distance while having the same filter area per cartridge
- » Flexible filter pleats support filter cleaning
- » Even and gentle cleaning using rotating nozzle
- » Vertical installation in filter systems

Benefits

- » Less choking up of the filter pleats due to larger distance between pleats
- » Very long service life of the filter elements and rotating nozzles
- » Cost savings through optimal cleaning properties
- » Less dust deposition due to being vertically installed

Automatic cleaning

- » Pressure-controlled breath-responsive cleaning by compressed air
- » A blast of compressed air from the integrated compressed air tank sets the rotating nozzle in motion
- » The rotational movement of the rotating nozzle creates an even flow
- » This achieves optimal cleaning performance of the KemTex® ePTFE filter cartridges



KEMPER Extraction and Filter Systems

WeldFil Compact and WeldFil in detail

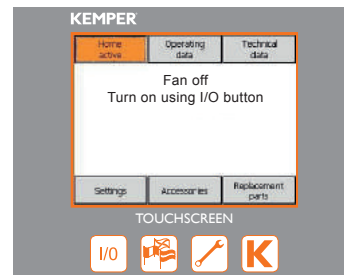
How they work

- » The contaminated air is sucked in through a pipe
- » Dust separation takes place at the surface of the filter medium
- » The automatic cleaning of the filter is based on need and carried out by compressed air
- » The repelled dust is collected in the dust container for disposal



Intelligent control

- » Intelligent control is the heart of KEMPER extraction and filter systems
- » All functions can be intuitively controlled via the control panel
- » A diagnostic system with various sensors monitors the proper functioning of the system



Good connections

- » WeldFil Compact ready to connect with 16 A CEE plug
- » Potential-free contacts for receiving an external on/off signal
- » A second, external control terminal permits remote control
- » Remote via optional modem



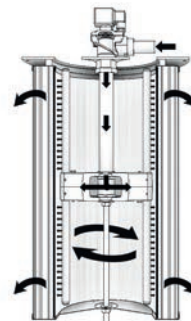
Filter inserts

- » Only high quality, tested and certified filters and filter media
- » Surface filtration with KemTex® ePTFE membrane filter with laminated PTFE layer
- » Best cleaning performance and long service life
- » Other, high-quality filters and filter media available, depending on application



Filter cleaning

- » Surface filtration enables efficient cleaning of the filter cartridges used
- » Cleaning is performed using compressed air while the system is in use
- » The repelled dust falls into a mobile dust collection container
- » After automatic lowering of the dust container, the dust can easily be disposed of





WeldFil Compact and WeldFil IFA-W3 certified

Reliable air filtration even against carcinogenic emissions



Cancer-causing emissions

- » When extracting **cancer-causing emissions**, special rules apply
- » These emissions are created when processing **high-alloy materials** (e.g. CrNi or non-ferrous metals)
- » **Recirculation of air into the work area**, even after filtering is basically prohibited
- » This is clearly stated in the **Directive on Hazardous Substances** with only few exceptions

Air recirculation

Air recirculation of cleaned air is only permitted in certain **exceptional cases** if

- » an **individual authorisation** is issued by an **official body** (national OSH),
- » a **recognized and tested method** or
- » a system or a **device with a corresponding test certificate** is used.

IFA certification

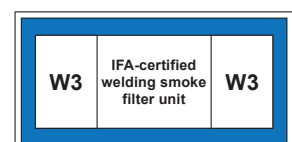
- » Certification of extraction and filter systems according to DIN EN ISO15012-1 Class W3
- » Professional Association Institute for Occupational Safety (IFA) acts as the certification body
- » IFA-tested systems from KEMPER may be used for air recirculation for carcinogenic pollutants as per welding fume class W3
- » The regulations of the Technical Regulations regarding Hazardous Substances are to be observed, such as:
 - the necessary supply of fresh air or
 - their use is limited to the heating season

State of technology

- » Nanoparticles of **cancer-causing** emissions are particularly dangerous
- » Residual dust from conventional systems (up to 1 mg/m³) can contain billions of particles
- » KemTex® ePTFE membrane filters separate up to 92% of particles up to 100 nanometres
- » A very large proportion of welding fumes consists of these nanoparticles

Benefits

- » IFA-W3 tested and certified extraction and filter systems from KEMPER can also be used for carcinogenic emissions
- » Legal security by certification from the Professional Association Institute
- » Optimum protection even against cancer-causing nanoparticles
- » Enormous cost savings due to air recirculation during the heating season
- » Contribution to environmental protection due to lower CO₂ emissions

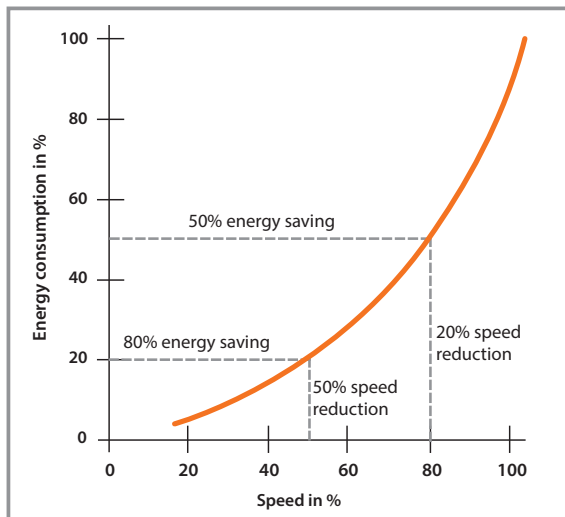


Energy and cost savings

through automatic extraction capacity control

In terms of energy and cost savings, what are the advantages of an extraction unit with connected frequency inverter for automatic extraction capacity control?

- » A frequency inverter adapts the motor speed and the power consumption to the current demand.
- » An extraction unit seldom requires the maximum motor power and with a frequency inverter, no unnecessary energy is consumed for most of the operating time.
- » Components are protected by slowly starting the motor. The service life is increased and maintenance costs are reduced.
- » For example if the motor speed is reduced by 20% the energy consumption, the energy consumption, decreases over-proportionally by about 50%.
- » Noise emissions from the fan are significantly reduced and employee protection improved.
- » The extraction unit runs for a large part of the operating time in a well-regulated partial load range and therefore it consumes noticeably less electricity.
- » In addition to the over-proportional reduction in power consumption, a frequency inverter takes the individual characteristics of the motors into account and adjusts itself accordingly. The motor is supplied with optimum voltage, current and frequency. This increases efficiency and reduces energy consumption by a further 3-4%.
- » The starting current is reduced, which is several times the rated current. This is important when designing cabling and fuses.
- » When operated by an inverter, the current consumption does not rise above the rated current of the motor. This is far below the current consumption when using a star/delta circuit or a soft starter.
- » When there are more or less welding stations in operation, the extraction capacity at all workstations automatically remains constant.
- » Reduced CO₂ emissions protect the environment. Government support in the form of grants or subsidised loans can be made available through subsidy programmes.



What other advantages do the filter cartridges in the extraction unit have?

Advantages

The power control ensures that no more air is extracted than necessary. **New filter cartridges** with very low flow resistance are **not damaged** by excessive volume flow. A guideline: Halving the volume flow leads to a quadrupling of the filter life.

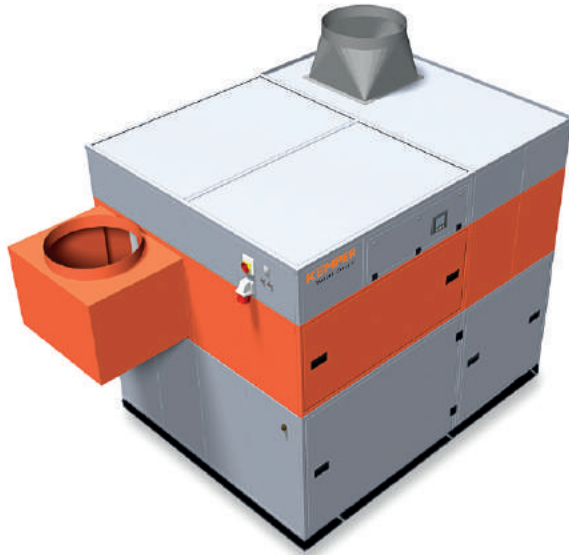
As the filter resistance increases, the **extraction capacity automatically remains constant**. This is convenient and ensures consistently good capture of hazardous substances.



KEMPER
WISSE

WeldFil Compact

- » Extraction capacity up to 8640 m³/h
- » Plug and play installation



Applications

- » High levels of smoke and dust
- » Welding and grinding shops
- » Training centres and robotic welding lines
- » Laser, plasma and flame cutting systems
- » Can be installed outdoors

Benefits

- » Contamination-free dust collection due to compressed air fixation of dust collection containers
- » Uninterrupted continuous operation due to automatic differential pressure-controlled filter cleaning
- » Little noise emission due to a particularly low noise level
- » Quick and simple set up, delivered ready to plug in with forklift pockets and lifting eyes
- » Considerable energy cost savings by using the automatic extraction volume control
- » Best health protection for employees by use of KemTex® ePTFE cartridges with surface filtration

Properties

- » Automatic filter cleaning, pressure-controlled
- » Control via touch screen
- » W3/IFA certified
- » KemTex® ePTFE filter cartridges
- » Dust collection container with pneumatic lifting device
- » Preassembled and ready to plug in
- » Automatic extraction volume control (optional)
- » Forklift bags

Accessories

- » Automatic dust disposal - DustEvac
- » Automatic extraction volume control
- » External On/Off
- » Fleet management, remote maintenance and pre-noise maintenance using autarkic networking via mobile radio to the KEMPER cloud
- » Spark separator – SparkTrap
- » Weatherproof housing for outdoor installation

Order Data

Art. No.	Extraction capacity	Vacuum	Filter surface total	Motor power	Dimensions (w x d x h)
34 20	1250 - 1800 m ³ /h	2280 - 2600 Pa	30 m ²	3 kW	962 x 962 x 2110 mm
34 30	2000 - 2880 m ³ /h	2000 - 2550 Pa	40 m ²	3 kW	962 x 1413 x 2110 mm
34 40	2750 - 3960 m ³ /h	2050 - 2700 Pa	60 m ²	4 kW	1413 x 1413 x 2110 mm
34 50	3500 - 5040 m ³ /h	2100 - 2650 Pa	70 m ²	5,5 kW	1413 x 1864 x 2110 mm
34 65	4500 - 6480 m ³ /h	2000 - 2750 Pa	90 m ²	5,5 kW	1413 x 1864 x 2110 mm
34 85	6000 - 8640 m ³ /h	2050 - 2500 Pa	120 m ²	7.5 kW	2378 x 1864 x 2110 mm

WeldFil

- » Extraction capacities from 7.500 m³/h - 26.400 m³/h
- » Scalable, central solution

Applications

- » High levels of smoke and dust
- » Training centres and robotic welding lines
- » Laser, plasma and flame cutting systems
- » Can be installed outdoors
- » Welding and grinding shops

Benefits

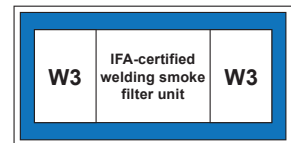
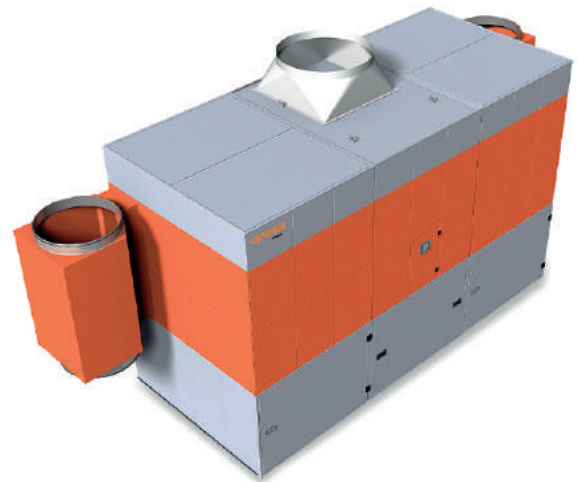
- » Contamination-free dust collection due to compressed air fixation of dust collection containers
- » Uninterrupted continuous operation due to automatic differential pressure-controlled filter cleaning
- » Little noise emission due to a particularly low noise level
- » Expandable due to simple modular construction
- » Considerable energy cost savings by using the automatic extraction volume control
- » Convenient operation due to intelligent control via touch screen with diagnostic system
- » Flexible integration of the control system into third-party systems such as cutting equipment due to potential-free contacts
- » Best health protection for employees by use of KemTex® ePTFE cartridges with surface filtration

Properties

- » Automatic filter cleaning, pressure-controlled
- » Control via touch screen
- » KemTex® ePTFE filter cartridges
- » Dust collection container with pneumatic lifting device
- » Modular design
- » Automatic extraction volume control (optional)

Accessories

- » Automatic dust disposal - DustEvac
- » Automatic extraction volume control
- » External On/Off
- » Fleet management, remote maintenance and pre-noise maintenance using autarkic networking via mobile radio to the KEMPER cloud
- » Spark separator – SparkTrap
- » Weatherproof housing for outdoor installation

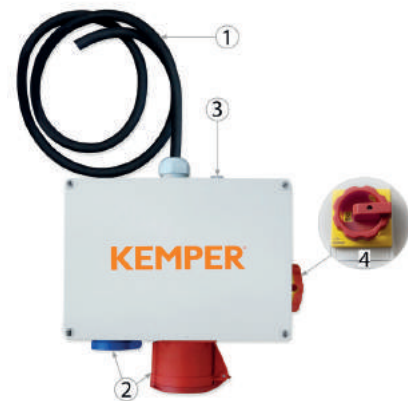


Order Data

Art. No.	Extraction capacity	Vacuum	Filter surface total	Motor power	Dimensions (w x d x h)
34 110	7500 - 10800 m ³ /h	2000 - 2600 Pa	140 m ²	11 kW	2826 x 1864 x 2670 mm
34 130	9000 - 12960 m ³ /h	1500 - 2250 Pa	180 m ²	11 kW	2826 x 1864 x 2670 mm
34 160	11000 - 15840 m ³ /h	1600 - 2330 Pa	220 m ²	11 kW	4239 x 1864 x 2670 mm
34 180	12000 - 17280 m ³ /h	1800 - 2550 Pa	240 m ²	15 kW	4239 x 1864 x 2670 mm
34 200	13500 - 19440 m ³ /h	1600 - 2250 Pa	260 m ²	15 kW	4239 x 1864 x 2670 mm
34 220	15000 - 21600 m ³ /h	1800 - 2550 Pa	300 m ²	18.5 kW	4239 x 1864 x 2670 mm
34 240	16500 - 23760 m ³ /h	1800 - 2250 Pa	320 m ²	18.5 kW	4239 x 1864 x 2670 mm
34 270	18500 - 26640 m ³ /h	1800 - 2250 Pa	360 m ²	22 kW	4239 x 1864 x 2670 mm



Start-Stop Set



Mode of operation

- » Start-Stop box power connection direct or with CEE plug (1)
- » For direct electrical connection the box is equipped with a circuit breaker (4)
- » Device (Welding Unit/ Grinding Unit) will get connected to box (2)
- » If the device is used the box will sense current and opens automatically the connected motor driven damper (3)
- » After completion of the work process the motor driven damper is closing automatically

Properties

- » Both outlets can be used simultaneously. Total amperage shouldnt be higher than input current
- » Box for direct power connection via supply cable includes a circuit breaker installed inside the box.
- » 1m cable length from motorised damper to connection box
- » 10m cable length from connection box to Start-Stop box
- » Afterrun time for the opening of the motorised damper can be adjusted from 0 - 120 seconds
- » By the connectionbox a further light hood can be connected. No further transformer is required.

Order Data

Art. No.	Power supply	Exit 1	Exit 2	Diameter damper
998 103 517	CEE plug 32A/5-pin	CEE plug 32A/5-pin	Single phase socket 16A	2" (HV)
998 103 518	CEE plug 32A/5-pin	CEE plug 32A/5-pin	Single phase socket 16A	160 mm
998 103 519	CEE plug 32A/5-pin	CEE plug 32A/5-pin	Single phase socket 16A	250 mm
998 103 520	CEE plug 32A/5-pin	CEE plug 32A/5-pin	Single phase socket 16A	355 mm
998 103 521	CEE plug 16A/5-pin	CEE plug 16A/5-pin	Single phase socket 16A	2" (HV)
998 103 522	CEE plug 16A/5-pin	CEE plug 16A/5-pin	Single phase socket 16A	160 mm
998 103 523	CEE plug 16A/5-pin	CEE plug 16A/5-pin	Single phase socket 16A	250 mm
998 103 524	CEE plug 16A/5-pin	CEE plug 16A/5-pin	Single phase socket 16A	355 mm
998 103 525	Cable connection 32A	CEE plug 32A/5-pin	Single phase socket 16A	2" (HV)
998 103 526	Cable connection 32A	CEE plug 32A/5-pin	Single phase socket 16A	160 mm
998 103 527	Cable connection 32A	CEE plug 32A/5-pin	Single phase socket 16A	250 mm
998 103 528	Cable connection 32A	CEE plug 32A/5-pin	Single phase socket 16A	355 mm
998 103 529	Cable connection 16A	CEE plug 16A/5-pin	Single phase socket 16A	2" (HV)
998 103 530	Cable connection 16A	CEE plug 16A/5-pin	Single phase socket 16A	160 mm
998 103 531	Cable connection 16A	CEE plug 16A/5-pin	Single phase socket 16A	250 mm
998 103 532	Cable connection 16A	CEE plug 16A/5-pin	Single phase socket 16A	355 mm



» KEMPER WeldFil with weather protection for outdoor installation



» KEMPER WeldFil space saving integration

PlasmaFil Compact

- » Longlife panel filter technology
- » Limited space



Applications

- » Medium to high amounts of smoke and dust
- » Can be installed outdoors
- » Plasma and oxy-fuel cutting systems
- » Robotic welding

Benefits

- » Easy transportation and installation
- » Low service costs due to durable plate filter technology
- » Predictable costs with lifetime filter warranty (service contract)
- » Suitable for spaces with low ceiling - fan unit can be separated
- » Optimal cleaning performance due to down-flow principle
- » Touchscreen allows safe and easy operation
- » Little floor space required due to compact design

Properties

- » Automatic filter cleaning
- » Control via touch screen
- » Down flow filtration
- » Forklift bags and lifting eyes
- » Automatic extraction volume control
- » Plate filter technology

Accessories

- » Automatic dust removal - DustEvac
- » External On/Off
- » SparkTrap
- » Automatic start/stop

Technical Data

Filter	
Filter stages	1
Filter method	Cleanable filter
Filter cleaning method	Jet-pulse
Type of filter	Filter plate
Filter material	ePTFE membrane
Filter efficiency	> 99.7 %
Dust classification	M
Filter class	H13
Basic data	
Power supply	3 x 400 V / 50 Hz
Noise level	72 dB(A)
Additional information	
Fan type	Radial fan, direct driven
Compressed air supply	5 - 6 bar

Order Data

Art. No.	Extraction capacity	Vacuum	Filter surface total	Motor power	Dimensions (w x d x h)
31 0350	2500 - 3500 m ³ /h	2300 - 2000 Pa	60 m ²	5.5 kW	1430 x 1830 x 3800 mm
31 0500	3500 - 5000 m ³ /h	2500 - 2000 Pa	80 m ²	7.5 kW	1430 x 1830 x 3800 mm
31 0650	4500 - 6500 m ³ /h	2500 - 1900 Pa	100 m ²	7.5 kW	1830 x 1830 x 3800 mm
31 0800	6000 - 8000 m ³ /h	2600 - 2000 Pa	120 m ²	11 kW	1830 x 1830 x 3800 mm
31 0950	7000 - 9500 m ³ /h	2800 - 2000 Pa	140 m ²	15 kW	2230 x 1830 x 4000 mm
31 1100	8000 - 11000 m ³ /h	3000 - 1900 Pa	160 m ²	15 kW	2230 x 1830 x 4000 mm



» PlasmaFil Compact with dust removal system
DustEvac



» SparkTrap – can be integrated into confined spaces

Sparktrap

- » Minimising fire risk
- » Extended filter life



Applications

- » Applications with an increased fire hazard
- » Presence of sparks
- » During welding, grinding or cutting processes
- » Integrated into duct work before extraction and filter units

Benefits

- » Drastic reduction of running costs due to longer filter life
- » Easy integration also into existing systems of any type or brand
- » Savings resulting from less compressed air consumption and lower energy costs
- » Minimization of fire hazards by pre-separating sparks and glowing particles

Properties

- » Separation of sparks, glowing particles and cigarette butts
- » Swirl nozzle with annular gap spark trap
- » Can be combined with a spark extinguishing system
- » Dust collection container and gate valve in the downpipe

Accessories

- » Stanchion support
- » Wall-mounting kit

Order Data SparkTrap

Art. No.	Connection Ø	Air flow rate (max.)	Length
196 200 250	250 mm	2500 m ³ /h	2340 mm
196 200 355	355 mm	5000 m ³ /h	3240 mm
196 200 450	450 mm	8000 m ³ /h	3830 mm
196 200 560	560 mm	12500 m ³ /h	4590 mm
196 200 710	710 mm	20000 m ³ /h	5690 mm

Stanchion support

Art. No.	Description
998 103 492	Stand column set for SparkTrap DN 250
998 103 493	Stand column set for SparkTrap DN 355
998 103 494	Stand column set for SparkTrap DN 450
998 103 495	Stand column set for SparkTrap DN 560
998 103 541	Stand column set for SparkTrap DN 710

Wall-mounting kit

Art. No.	Description
998 103 485	Wall assembly set for SparkTrap DN 250
998 103 481	Wall assembly set for SparkTrap DN 355
998 103 486	Wall assembly set for SparkTrap DN 450
998 103 487	Wall assembly set for SparkTrap DN 560
998 103 540	Wall assembly set for SparkTrap DN 710



DustEvac Dust Removal System

- » Automatic dust removal
- » Contamination free

Applications

- » Medium to high amounts of dust
- » For dust collected during cutting, welding and grinding processes
- » For all types and brands of extraction and filtration systems

Benefits

- » Easy integration also into existing systems of any type or brand
- » Highest possible health and safety protection with contamination-free dust disposal
- » Clean dust collection area
- » Productivity increase thanks to uninterrupted operation of the filter system and large capacity
- » Fast and easy dust disposal in BigBags, transportable via forklift

Properties

- » Connection of multiple systems or spark pre-separators to one system is possible
- » Automatic dust removal from filter systems
- » Continuous dust removal by vacuum conveyor
- » Controlled and monitored via the filter system

Accessories

- » Stackable BigBags



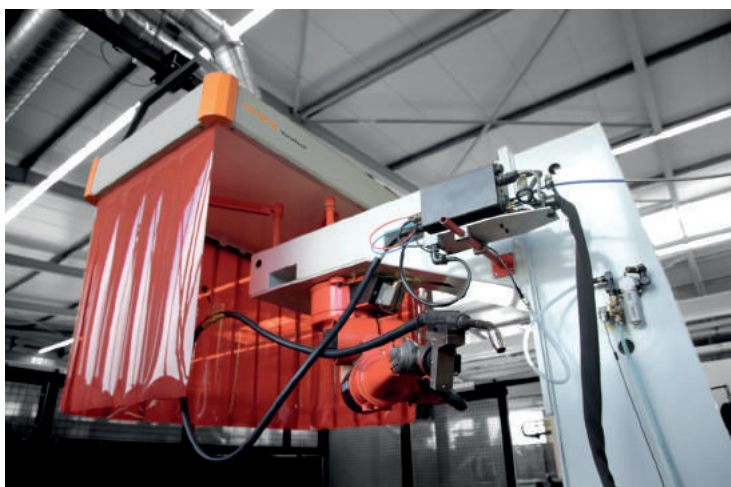
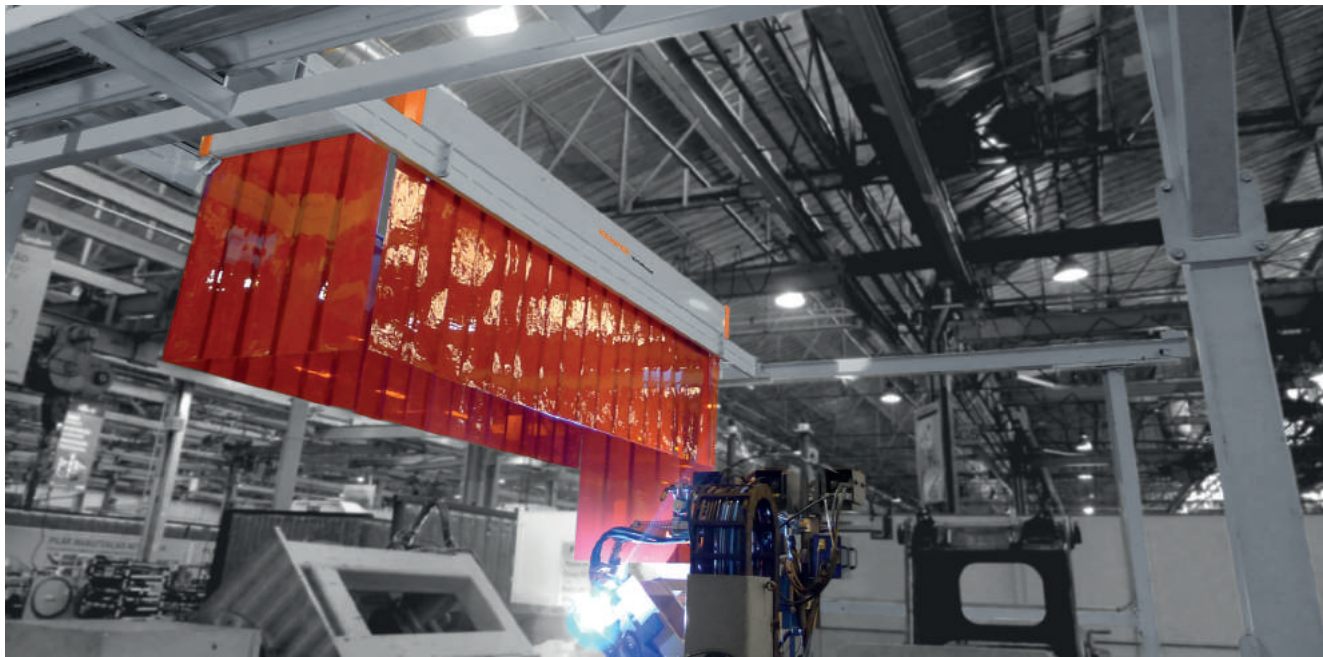
Order Data

Art. No.	Description
38 110	For 1 filter module
38 120	For 2 filter modules
38 130	For 3 filter modules



VarioHood

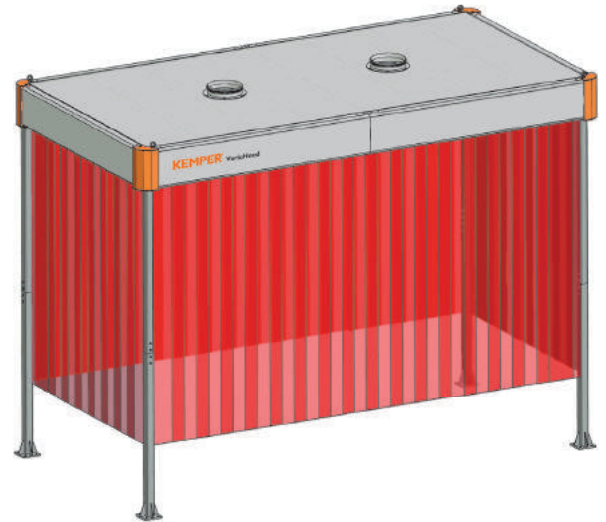
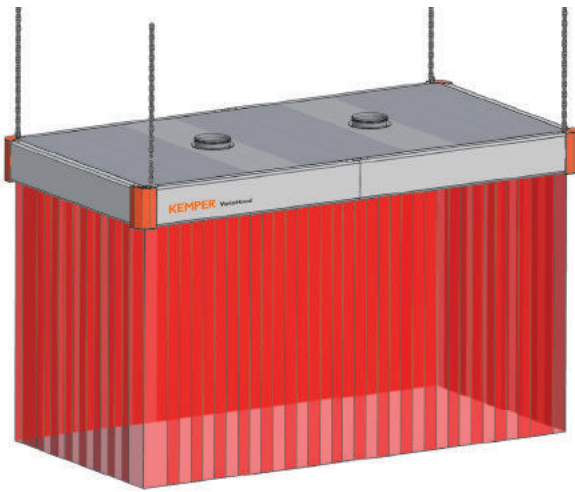
Modular exhaust hood



Mode of operation

Thanks to unique flow principle it is possible to achieve a high extraction efficiency at a very low air volume. The dust produced is drawn through small, elongated openings on the inner edges of the extraction hood.

The extraction hood can be fitted with welding strips to reduce the occurrence of sparks, thus protecting not only the staff but the entire equipment. Furthermore, the dust incurred during welding and cutting cannot escape through the hanging strips. The length of the strips can be individually altered to suit your requirements.



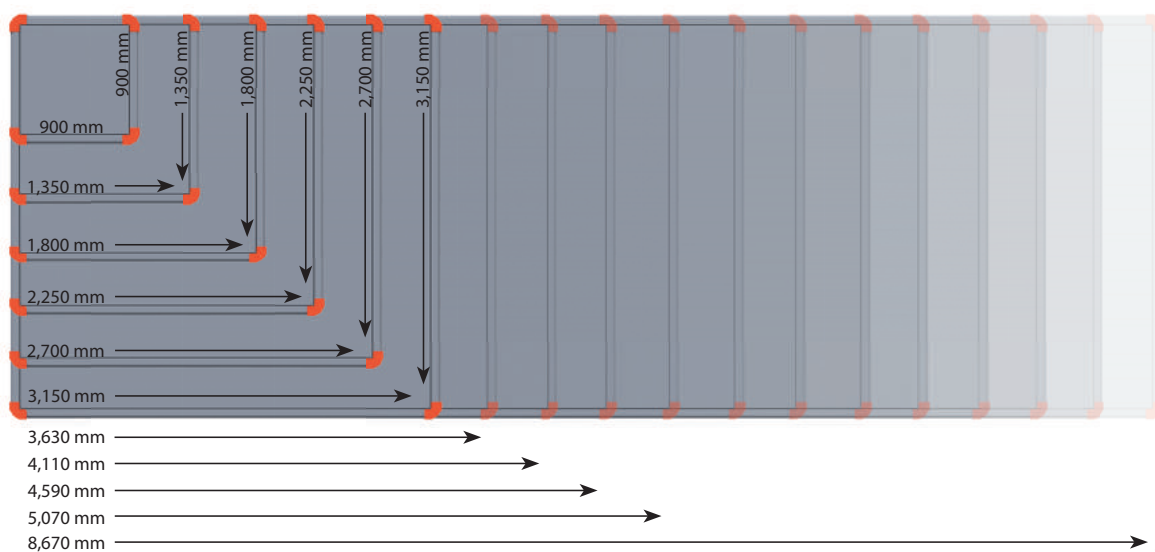
The modular extraction hood KEMPER Vario Hood can be individually configured from 450mm x 450mm up to a maximum width of 3,150 mm in increments of 450 mm. Any length is not a problem as KEMPER has already manufactured hoods with a length of 20,000 mm.

KEMPER Vario Hood can be equipped with welding protection strips from the KEMPER program with an overlap of 33%, 66% or 100%.

In addition to assisting with the effective capture of welding fumes the strips also protect equipment and people against welding spatter.

Various mounting options gives a lot of leeway when planning the system.

Modular configuration up to 3,150mm width and 20,000mm length



VarioHood - Modular Exhaust Hood

- » Modular construction
- » Low airflow required



Applications

- » Robot extraction

Benefits

- » Low flow rate required due to innovative flow principle
- » Plenty of scope for plant design due to variety of mounting options
- » Low transport costs and easy installation thanks to assembly set
- » Many different sizes available due to the modular design
- » Increased health protection because dust can be sucked up directly at source
- » Protection against welding spatter for staff and equipment thanks to welding strips

Properties

- » Modular design
- » Suspended from the ceiling, mounted on stands or integrated into a movable robot gantry
- » Innovative air flow principle
- » Insertable

Further Products

Art. No.	Description
70 400 302	Support stand set 2 m for KEMPER variohood
70 400 301	Support stand set 2,5 m for KEMPER variohood
70 400 300	Support stand set 3 m for KEMPER variohood
119 0441	Chain suspension set 5 m for KEMPER variohood
119 0442	Chain suspension set 10 m for KEMPER variohood

* Suitable strips, see chapter protective welding equipment

Order Data

Art. No.	Dimensions (w x d)	Required extraction capacity	Weight	Pressure drop	Number of extraction spigots.
232 0302	900 x 1350 mm	600 - 950 m ³ /h	56 kg	200 Pa	1
232 0402	900 x 1800 mm	800 - 1.300 m ³ /h	66 kg	200 Pa	1
232 0502	900 x 2250 mm	1.000 - 1.600 m ³ /h	91 kg	200 Pa	2
232 0602	900 x 2700 mm	1.200 - 2.000 m ³ /h	101 kg	200 Pa	2
232 0303	1350 x 1350 mm	900 - 1.500 m ³ /h	69 kg	200 Pa	1
232 0403	1350 x 1800 mm	1.200 - 2.000 m ³ /h	83 kg	200 Pa	1
232 0503	1350 x 2250 mm	1.500 - 2.400 m ³ /h	114 kg	200 Pa	2
232 0603	1350 x 2700 mm	1.800 - 2.900 m ³ /h	128 kg	200 Pa	2
232 0404	1800 x 1800 mm	1.600 - 2.600 m ³ /h	100 kg	200 Pa	2
232 0504	1800 x 2250 mm	2.000 - 3.200 m ³ /h	138 kg	200 Pa	3
232 0604	1800 x 2700 mm	2.400 - 3.900 m ³ /h	156 kg	200 Pa	3

* further sizes available on enquiry/request





Extraction And Cutting Tables

Tables For Manual Applications

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Extraction Tables For Cutting Systems

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KemTab Vibro	126
KEMPER TheSlagger	128



Grinding Table

- » Robust
- » Rear wall extraction



Applications

- » Industrial grinding of machined workpieces

Properties

- » Robust grid-type material support
- » Side walls can be folded down
- » Side walls with sound insulation material
- » Rear wall extraction
- » Integrated slag tray
- » Connection and integration into an existing extraction system

Benefits

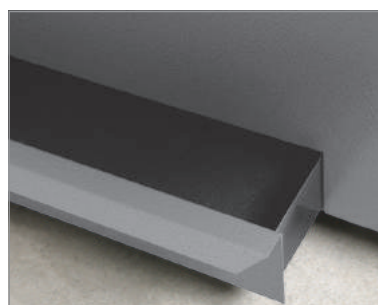
- » Safe working due to robust material support
- » Side walls can be folded away so also suitable for larger workpieces
- » Reduced noise levels due to soundproofed side walls
- » Higher degree of grinding dust capture due to the rear wall extraction
- » Easy cleaning thanks to the integrated slag tray
- » Comfortable to work with thanks to the ergonomically adapted sheet steel construction

Order Data

Art. No.	Description
99 820 0004	(W x D x H): 1,010 x 1,060 x 1,700 mm
99 820 0023	(W x D x H): 1,360 x 1,060 x 1,700 mm
99 820 0029	(W x D x H): 1,510 x 1,060 x 1,700 mm
99 820 0016	(W x D x H): 2,000 x 1,060 x 1,700 mm

Suitable filter unit

Table	Recommended filter unit
99 820 0004	34 20
99 820 0023	34 20
99 820 0029	34 30
99 820 0016	34 30



Welding Table

- » Robust
- » Easy cleaning

Applications

- » Manual working on small metal parts

Properties

- » Robust grid-type material support
- » Integrated slag tray
- » Welded, ergonomically adapted sheet steel construction
- » Can be connected to filtration system or fan

Benefits

- » Safe working due to robust material support
- » Easy cleaning thanks to the integrated slag tray
- » Comfortable to work with thanks to ergonomically adapted sheet steel construction



Suitable filter unit

Table	Recommended filter unit
950 490 047	34 20
950 490 048	34 20
950 490 049	34 30

Order Data

Art. No.	Description
950 490 047	(W x D x H) 1,000 x 800 x 850 mm
950 490 048	(W x D x H) 1,500 x 800 x 850 mm
950 490 049	(W x D x H) 2,000 x 800 x 850 mm

Welding Table With Fan

- » Direct extraction
- » Easy cleaning

Applications

- » Manual working on small metal parts

Properties

- » Robust grid-type material support
- » Integrated slag tray
- » Welded, ergonomically adapted sheet steel construction
- » External cast silumin fan

Benefits

- » Safe working due to robust material support
- » Direct extraction of the contaminated air by the attached fan
- » Easy cleaning thanks to the integrated slag tray
- » Comfortable to work with thanks to ergonomically adapted sheet steel construction



Order Data

Art. No.	Description
95 021 111	(W x D x H) 1,000 x 800 x 850 mm
95 021 112	(W x D x H) 1,500 x 800 x 850 mm
95 021 113	(W x D x H) 2,000 x 800 x 850 mm



Hand Cutting Table With Fixture

- » Training
- » Robust

Applications

- » Gas cutting by hand
- » Apprenticeship, research and training centres
- » Educational departments in companies

Properties

- » Workpiece clamping device with foot-operated mechanism for holding gas cutting equipment
- » Integrated slag tray
- » Suitable for connection to central extraction and filtering systems
- » Robust steel plate construction



Benefits

- » Both hands are free to work thanks to the foot-operated mechanism for clamping the workpiece
- » Safe working due to robust material support
- » Easy cleaning thanks to the integrated slag tray
- » Comfortable to work with thanks to ergonomically adapted sheet steel construction

Order Data

Art. No.	Description
99 841	(W x D x H) 1,000 x 650 x 800 mm

Suitable filter unit

Table	Recommended filter unit
99 841	34 20



Order Data

Art. No.	Description
99 840 0260	(W x D x H) 1,500 x 850 x 800 mm
99 840 0259	(W x D x H) 1,050 x 850 x 800 mm

Suitable filter unit

Table	Recommended filter unit
99 840 0260	34 20
99 840 0259	34 20

Welding Training Table

- » Different sizes
- » Can be integrated into welding cabins

Applications

- » Flat and deep welding
- » Apprenticeship and training centres
- » Educational departments in companies

Properties

- » Robust steel profile construction
- » Two-section work surface: iron bar grating and sheet steel support surface with refractory material
- » Can be integrated into KEMPER extraction booths

Benefits

- » Due to the division of the work surface, two welding processes can be practiced at one workplace
- » Durable due to robust steel construction

Accessories

- » Forced position welding fixture

Scope Of Supply

- » Iron bar grating
- » Robust, welded, steel profile construction
- » Sheet steel support surface with refractory material



Replacement Parts and Accessories

Art. No.	Description
998 800 011	Forced position welding fixture

Order Data

Art. No.	Description
95 020	(W x D x H): 600 x 600 x 800 mm, without drawer
95 021	(W x D x H): 900 x 600 x 800mm, without drawer
95 026	(W x D x H): 1,200 x 600 x 800mm, without drawer
95 020 300	(W x D x H): 600 x 600 x 800 mm, with drawer
95 021 300	(W x D x H): 600 x 900 x 800 mm, with drawer
95 026 300	(W x D x H): 600 x 1,200 x 800 mm, with drawer



Training table

- » Compact and solid
- » Wide range of accessories



Applications

- » Apprenticeship and training centres
- » Educational departments in companies

Properties

- » Connection spigot 160 mm
- » Robust steel construction
- » Can be integrated into KEMPER extraction booths
- » Integrated slag tray
- » For connection to central extraction and filtering systems

Scope Of Supply

- » Robust welded steel construction
- » Water container
- » Electrode quiver
- » Tool tray
- » Forced position welding fixture

Order Data

Art. No.	Description
950 49 109	(W x D x H): 600 x 580 x 850 mm

Hand Cutting Table

- » Robust
- » Easy cleaning



Applications

- » Manual working on small metal parts

Properties

- » Connection spigot 160 mm
- » Robust material support fabricated of flat steel
- » Integrated slag tray
- » For connection to central extraction and filtering systems

Benefits

- » Safe working due to robust material support
- » Easy cleaning thanks to the integrated slag tray

Order Data

Art. No.	Description
197 0033	(W x D x H): 800 x 600 x 800mm
197 0002	(W x D x H): 1,108 x 800 x 800mm

Suitable filter unit

Table	Recommended filter unit
197 0033	34 20
197 0002	34 20

* further sizes available on enquiry/request

Applications

- » Low to medium levels of smoke and dust
- » Occasional to frequent use
- » Welding and grinding

Properties

- » Spark separator
- » Large, robust material support
- » Activated charcoal filter (optional)

Benefits

- » Maintenance door allows easy filter change
- » Effective spark protection ensures maximum safety
- » Downdraft extraction throughout the whole working area
- » Wide range of applications due to large working area of 1,200 x 800 mm

Filter-Table

- » Working table with filter unit
- » Large work surface



Order Data

Art. No.	Description
950 400 001	KEMPER Filter-Table

Replacement Parts and Accessories

Art. No.	Description
109 0345	Activated charcoal filter
109 0013	Aluminium pre-filter for ProfiMaster, Filter-Cell, Filter-Table
109 0010	Main filter 15,8 m ²

Technical Data

Filter	
Filter stages	2
Filter method	Disposable filter
Filter surface	15.8 m ²
Type of filter	Filter cassette
Filter material	Non-woven fibre
Additional filters	Pre-filter
Basic data	
Extraction capacity	1400 m ³ /h
Dimensions (w x d x h)	1200 x 800 x 1340 mm
Weight	155 kg
Motor power	1.5 kW
Power supply	3 x 400 V / 50 Hz
Rated current	3.2 A
Noise level	71 dB(A)
Additional information	
Fan type	Radial fan





KEMPER Extraction tables

Energy-saving segment extraction in modular design



KEMPER Extraction tables

Extraction segments

To keep extraction needs as low as possible our tables are split into individual segments which can be separately extracted from.

Fire safety

To prevent fire due to sparks being sucked up, the tables are designed to pre-clean the extracted air.

Cleaning

Table maintenance is important to ensure smooth functioning of the system. Crane hooks are installed on every element of our extraction tables. This makes them easy to remove the material supports, gratings and dust/slag containers. Containers are designed to make emptying easy.

Modular design

KEMPER extraction tables consist of individual standard modules that can be connected together. This makes it possible to implement any size of table desired. This standardisation makes combining modules quick and easy.

Surface extraction

The design of the extraction tables ensures that the dust generated is extracted evenly over the entire table surface area. This yields efficient and safe extraction of dust generated without sparks getting into the filter.

Important things to know

Cutting systems, of whatever kind, must primarily do one thing – cut in a qualitative and effective optimal manner.

This predicates not only optimal plasma, laser or oxy-fuel systems but a cutting table perfectly tailored to the needs.

That's not all. The smoke that is generated in thermal cutting of metal must be extracted away to prevent any risk arising to the health of anyone in the vicinity. Dust, sparks and smoke represent a risk to machinery as well in the long term and may hamper its functioning. An Extraction system is therefore absolutely essential.

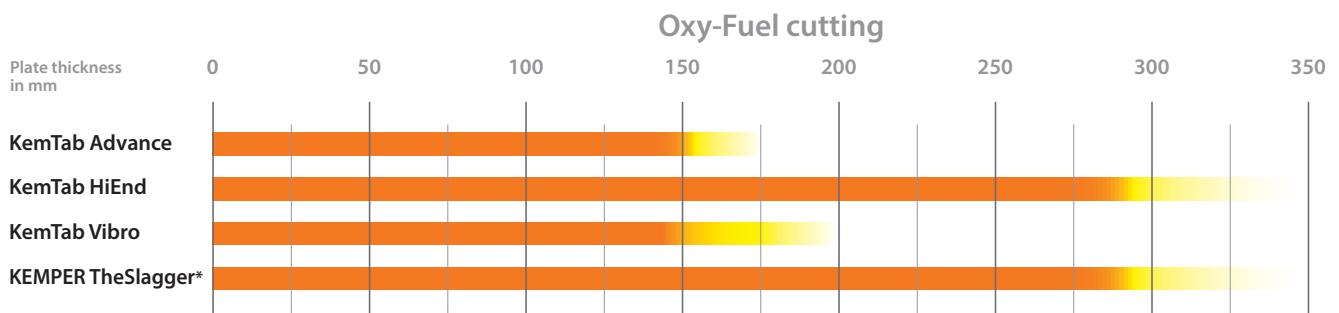
Summary extraction tables

Technical Data	KemTab Advance	KemTab HiEnd	KemTab Vibro	KEMPER TheSlagger
Capacity steel plates in mm	200	300	200	300*
Max. width in mm	any	4,400	4,200	6,210
Max. length in mm	any	any	12,360	any
Table height in mm	700	850	820	787
Segment size in mm	515	515	515	750
Slag boxes	✓	✓	-	-
Material support frame EasyFrame Advance	✓	-	✓	-
Mechanical control	✓	-	-	✓
Pneumatic Control	✓	✓	✓	-
Electric pneumatic control	✓	-	✓	-
Manual discharge/cleaning	✓	✓	-	-
Automatic discharge/cleaning	-	-	✓	✓
Front duct connection	✓	✓	✓	✓
Under table duct connection	✓	-	-	upon request

*depending on table width

Selection criteria extraction tables

This overview illustrates which table is best suitable for the different applications:



*maximum thickness (can differ depending on table width)



KEMPER EasyFrame

Self-supporting material support with excellent cutting results

Plasma cutting at high amperage leads to enormous cutting speeds and clean cuts. But it also leads to a higher strain on the material supports as well as a larger amount of slag. Conventional material supports cannot keep up with the rapid changes in the plasma cutting technology. A short lifespan caused by high erosion and stuck support frames are the result.

With EasyFrame KEMPER has developed a material support that is beyond its time. The material support is up to date and will keep up with the expected increasing demand of the plasma cutting technology in the next years.

The KEMPER EasyFrame material support is made up of interlocking support bars and deflector plates. The result is a self supporting construction without any support frames and requires no welding work.

The support is quickly and easily put together. Due to the construction there is a smaller contact surface for the cutting beam. This leads to less reflection and therefore less erosion and better cutting quality.

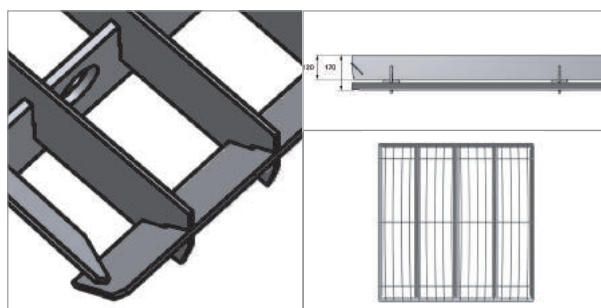
There is no requirement to clean or service the support, because after the support is worn out it will be completely disposed. The customer can then either purchase a new support or make one on his own cutting units. Necessary drawings or programs are available from KEMPER.

Overview of the KEMPER EasyFrame material support:

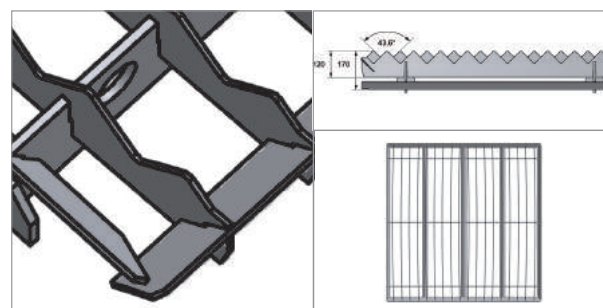
- » Self-supporting material supports, no welded frames
- » Material supports can be completely disposed
- » No possibility of accumulation of slag in the corners and pockets
- » Less reflection of the cutting beam
- » The material support can be made by the customer
- » Cleaner and simpler installation of new frame without any welding work
- » Time-saving disposal of the old frame and installation of the new frame
- » Cleaning of the material support is no longer necessary
- » Optimal solution for use with magnet crane

We provide a wide range of other cutting grids for a variety of applications.

Upon request we will gladly send you comprehensive information.



KEMPER EasyFrame Advance, straight support bars

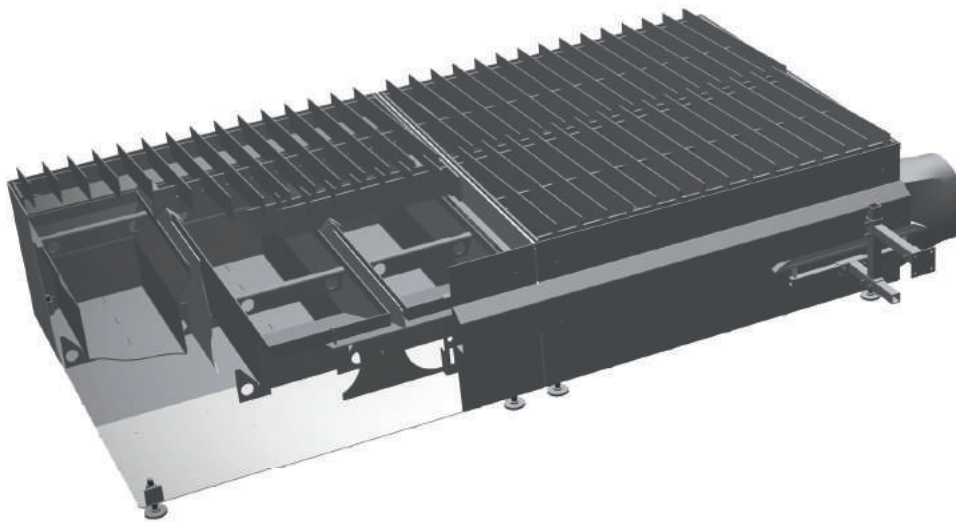


KEMPER EasyFrame Advance, serrated support bars



KemTab Advance

- » For high requirements
- » Different control possibilities



Applications

- » For plasma cutting up to 300 amps (short peaks 400 A)
- » For gas cutting with sheet metal up to 150 mm thick

Properties

- » Low extraction volume
- » Standard material support or easyFRAME
- » Large slag trays
- » Various pneumatic control options of the extraction damper in the individual table segments
- » Modular design

Benefits

- » Better cut quality and less wear due to innovative design of the material support easyFRAME
- » No external follow-up costs caused by in-house production of wear parts due to easyFRAME
- » No cleaning or maintenance required on the material support as it can be easily replaced (easyFRAME)
- » Energy cost savings due to low extraction volume thanks to individual control of the extraction dampers of the segment in use
- » No mechanical influence of the cutting system in non-contact electronic-pneumatic control of the extraction dampers
- » Time and cost savings when cleaning the table due to large slag trays and thus longer cleaning intervals
- » Flexible table size design due to modular system (length, width)

Technical Data

Basic data	
Module widths	1.100 mm, 1.600 mm, 2.100 mm, 2.600 mm, 3.100 mm ...
Table height	700
Segment distance	515
Material support frame	EasyFrame Advance

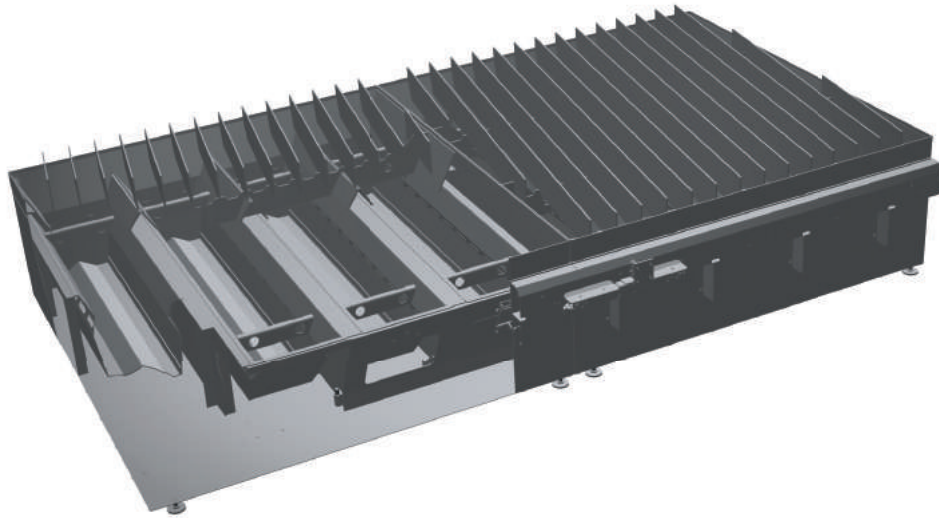
Additional table widths on request.

Order Data

Art. No.	Description
510 845	KemTab Advance

KemTab HiEnd

- » For highest requirements
- » Different pneumatic control possibilities



Benefits

- » Use with particularly high cutting currents and material thicknesses possible due to the material support surface and table construction being separate and due to the external pneumatic system
- » Energy cost savings due to low extraction volume thanks to individual control of the extraction dampers of the segment in use
- » No mechanical influence of the cutting system in non-contact electronic-pneumatic control of the extraction dampers
- » Time and cost savings when cleaning the table due to large slag trays and thus longer cleaning intervals
- » Low wear on the pneumatic system since it is separated from the air stream

Order Data

Art. No.	Description
510 847	KemTab HiEnd

Applications

- » For plasma cutting of up to 600 Ampere (short term 800 A and higher)
- » For gas cutting with sheet metal up to 300 mm thick

Properties

- » Low extraction volume
- » Robust, self-supporting material support
- » Material support and lower part of the table are separate from each other
- » Large, reinforced slag trays
- » Various pneumatic control options of the extraction damper in the individual table segments
- » Air flow and mechanical system are separated from each other
- » Modular design

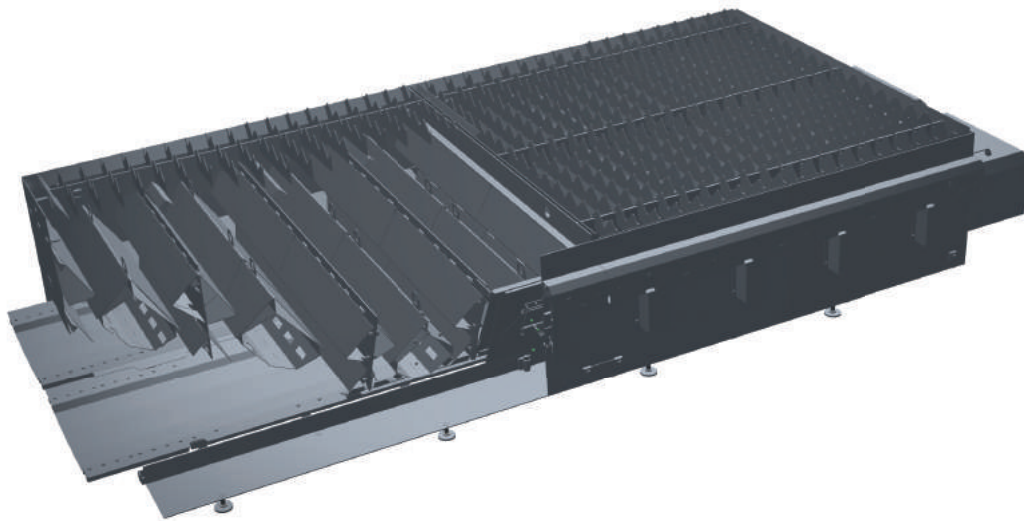
Technical Data

Basic data	
Table width	2.200 mm, 2.700 mm, 3.100 mm, 4.400 mm
Table height	850
Table lengths	Any
Segment distance	515



KemTab Vibro

- » For high requirements
- » Vibration conveyor



Applications

- » For plasma cutting up to 400 amps (short peaks 450 A)
- » For gas cutting with sheet metal up to 150 mm thick

Properties

- » Automatic discharge of slag by vibration conveyor
- » Low extraction volume
- » Standard material support or easyFRAME
- » Various pneumatic control options of the extraction damper in the individual table segments
- » Exterior pneumatic system
- » Air flow and mechanical system are separated from each other
- » Modular design

Benefits

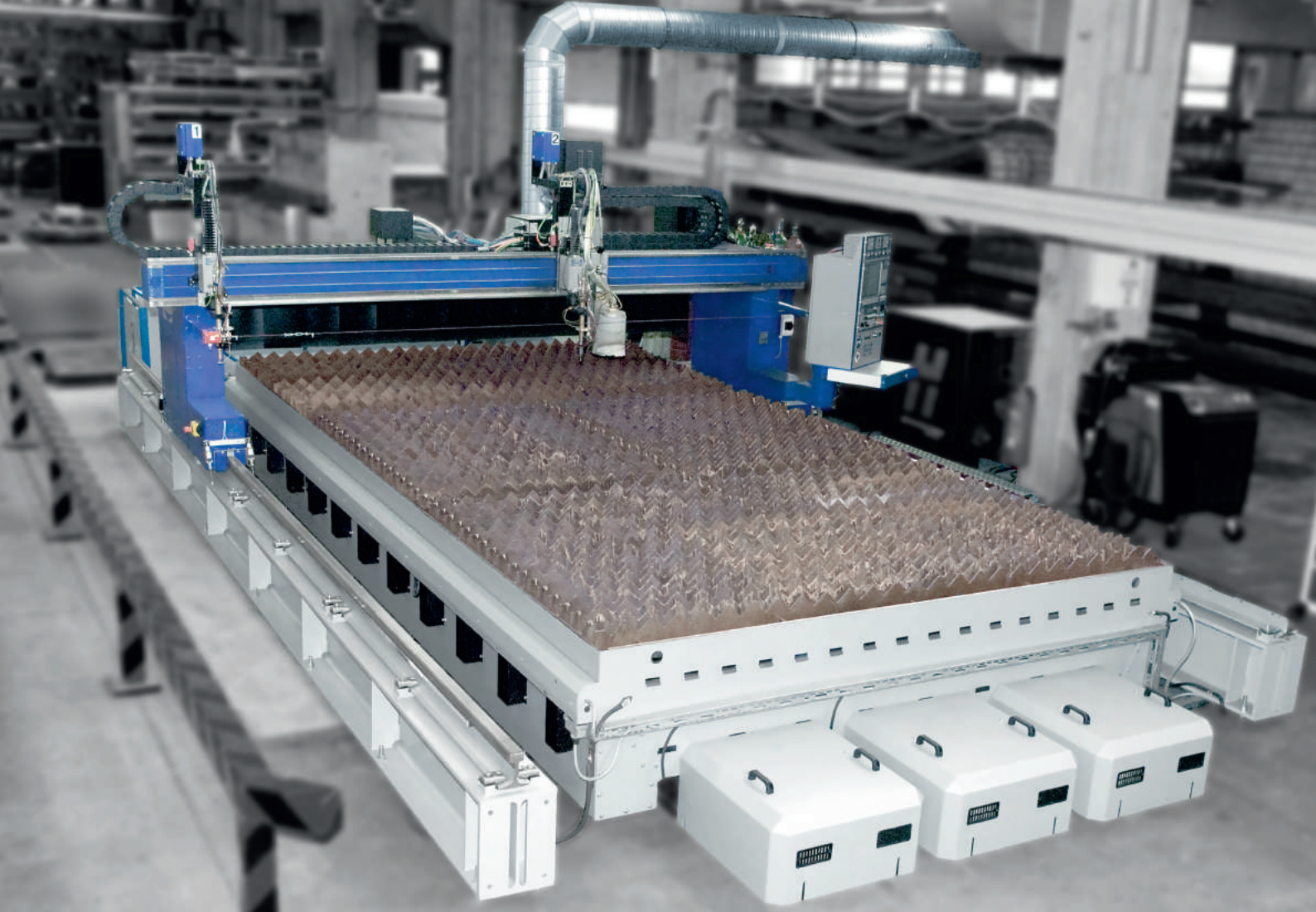
- » Better utilization and efficiency of the cutting system due to automatic waste discharge and therefore minimal downtime for cleaning
- » Better cut quality and less wear due to innovative design of the material support easyFRAME
- » No external follow-up costs caused by in-house production of wear parts due to easyFRAME
- » No cleaning or maintenance required on the material support as it can be easily replaced (easyFRAME)
- » Energy cost savings due to low extraction volume thanks to individual control of the extraction dampers of the segment in use
- » No mechanical influence of the cutting system in non-contact electronic-pneumatic control of the extraction dampers
- » Low wear on the pneumatic system since it is separated from the air stream

Technical Data

Basic data	
Module widths	2.100 mm, 2.600 mm, 3.100 mm, 4.200 mm
Table height	820
Material support frame	EasyFrame Advance

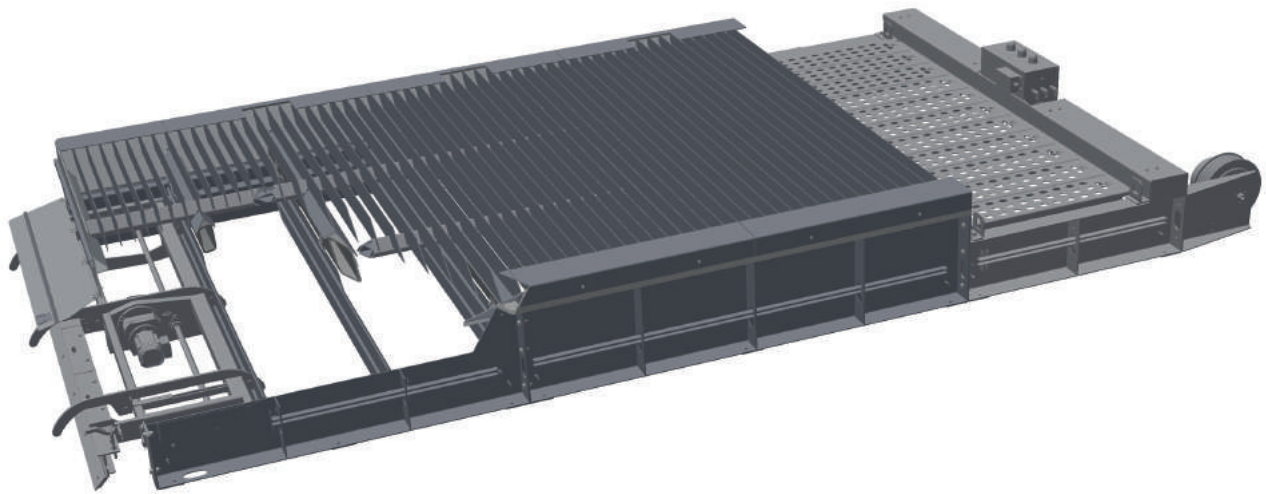
Order Data

Art. No.	Description
510 848	KemTab Vibro



KEMPER TheSlagger

- » For high requirements
- » Automatic removal



Applications

- » For plasma cutting up to 400 amps
- » For oxy-fuel cutting of sheet metal up to 300 mm thick depending on table width

Properties

- » Flexible table size design (length, width)
- » Low extraction volume
- » Hardly any downtimes for cleaning

Benefits

- » Energy cost savings due to low extraction volume thanks to individual control of the extraction dampers of the segment in use
- » Time and cost savings when cleaning the table due to the automatic removal system
- » Highest possible health and safety protection for employees as there is no contact with the slag and dust during cleaning
- » No long downtimes of the cutting system thanks to the automatic removal system

Technical Data

Basic data

Table width (Material support)	1.700 mm, 2.000 mm, 2.310 mm, 2.615 mm, 2.920 mm, 3.225 mm
Table height	787
Segment distance	750

Order Data

Art. No.	Description
998 56	KEMPER TheSlagger





Occupational safety and partition walls

Protection Curtains And Walls

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Welding curtains

For the separation of work and hall areas

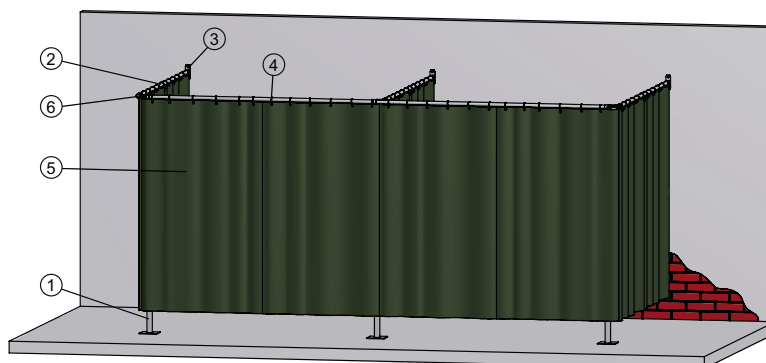


Example

of a welding curtain system
W 4.000 x D 2.000 x H 2.000 mm
with welding curtain S9, dark green, matt,
ground clearance 200 mm:

- ① 3 x column for 1" pipe Part No. 70 180 110
- ② 2 x 6 m 1" pipe, Part No. 70 190 144
- ③ 3 x wall mounting plate for 1" pipe, Part No. 70 190 135
- ④ 7 x sets of metal hooks for 1" pipe, (70 pieces), Part No. 70 120 109
- ⑤ 10 x welding curtains S9, dark green, matt, H 1.800 x W 1.300 mm, Part No. 70 100 101
- ⑥ 5 x end caps for 1" pipe, Part No. 70 190 133

Metal hook suspended welding curtains for 1" pipe

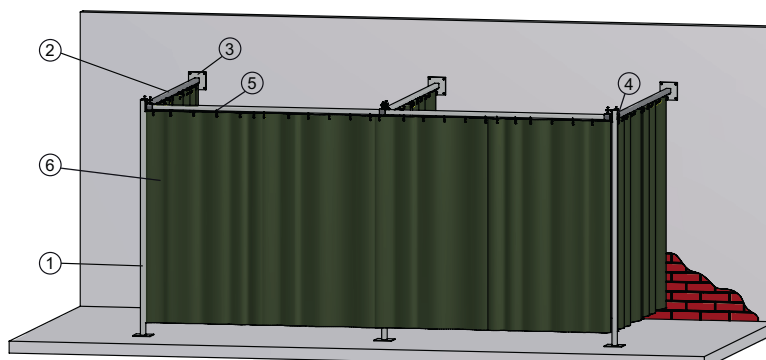


Example

of a welding curtain system
W 4.000 x D 2.000 x H 2.000 mm
with welding curtain S9, dark green, matt,
ground clearance 200 mm:

- ① 3 x column for C-profile, Part No. 70 180 109
- ② 2 x 6 m C-Profile, Part No. 70 124 106
- ③ 3 x wall mounting plate for C-profile, Part No. 70 190 113
- ④ 5 x end caps for C-profile, Part No. 70 120 107
- ⑤ 7 x sets of metal hooks (70 pieces), Part No. 70 120 112
- ⑥ 10 x welding curtains S9, dark green, matt, H 1.800 x W 1.300 mm, Part No. 70 100 101

Sliding hook suspended welding curtains for C-profile



Welding curtains

Properties

- » For fixing on a tube or a C-profile
- » Reinforced hems on all sides to prevent tearing
- » Safety curtain in colour S0, clear is self-extinguishing, class K 1, as per DIN 53 438, part 2
- » Welding curtain is tested as per DIN EN ISO 25980
- » Reinforced eyelets for fixing
- » Sealed-in plastic snap fasteners

Applications

- » For separating individual work and factory areas
- » Protection against harmful radiation, welding arcs and spatter
- » visual protection
- » Light dimming

Benefits

- » Rugged suspension system due to reinforced eyelets and tear-proof hem
- » Curtain can be moved aside due to fastening using eyelets or sliding hooks
- » Curtain size can be varied by use of snap fasteners

Welding Curtain S7, Green

Art. No.	Description
70 100 300	H 1,600 x W 1,300 mm, 1.30 kg, thickness = 0,4 mm
70 100 301	H 1,800 x W 1,300 mm, 1.50 kg, thickness = 0,4 mm
70 100 302	H 2,000 x W 1,300 mm, 1.60 kg, thickness = 0,4 mm
70 100 303	H 2,200 x W 1,300 mm, 1.70 kg, thickness = 0,4 mm
70 100 304	H 2,400 x W 1,300 mm, 1.90 kg, thickness = 0,4 mm
70 100 305	H 2,600 x W 1,300 mm, 2.00 kg, thickness = 0,4 mm
70 100 306	H 2,800 x W 1,300 mm, 2.20 kg, thickness = 0,4 mm
70 100 307	H 3,000 x W 1,300 mm, 2.30 kg, thickness = 0,4 mm
70 100 321	custom size per m ²

Welding Curtain S9, Dark Green, Matt

Art. No.	Description
70 100 100	H 1,600 x W 1,300 mm, 1.30 kg, thickness = 0,4 mm
70 100 101	H 1,800 x W 1,300 mm, 1.50 kg, thickness = 0,4 mm
70 100 102	H 2,000 x W 1,300 mm, 1.60 kg, thickness = 0,4 mm
70 100 103	H 2,200 x W 1,300 mm, 1.70 kg, thickness = 0,4 mm
70 100 104	H 2,400 x W 1,300 mm, 1.90 kg, thickness = 0,4 mm
70 100 105	H 2,600 x W 1,300 mm, 2.00 kg, thickness = 0,4 mm
70 100 106	H 2,800 x W 1,300 mm, 2.20 kg, thickness = 0,4 mm
70 100 107	H 3,000 x W 1,300 mm, 2.30 kg, thickness = 0,4 mm
70 100 121	custom size per m ²

Protection Curtain S0, Transparent

Art. No.	Description
70 100 500	H 1,600 x W 1,300 mm, 1.30 kg, thickness = 0,4 mm
70 100 501	H 1,800 x W 1,300 mm, 1.50 kg, thickness = 0,4 mm
70 100 502	H 2,000 x W 1,300 mm, 1.60 kg, thickness = 0,4 mm
70 100 503	H 2,200 x W 1,300 mm, 1.70 kg, thickness = 0,4 mm
70 100 504	H 2,400 x W 1,300 mm, 1.90 kg, thickness = 0,4 mm
70 100 505	H 2,600 x W 1,300 mm, 2.00 kg, thickness = 0,4 mm
70 100 506	H 2,800 x W 1,300 mm, 2.20 kg, thickness = 0,4 mm
70 100 507	H 3,000 x W 1,300 mm, 2.30 kg, thickness = 0,4 mm
70 100 521	custom size per m ²

Welding Curtain, Red

Art. No.	Description
70 100 400	H 1,600 x W 1,300 mm, 1.30 kg, thickness = 0,4 mm
70 100 401	H 1,800 x W 1,300 mm, 1.50 kg, thickness = 0,4 mm
70 100 402	H 2,000 x W 1,300 mm, 1.60 kg, thickness = 0,4 mm
70 100 403	H 2,200 x W 1,300 mm, 1.70 kg, thickness = 0,4 mm
70 100 404	H 2,400 x W 1,300 mm, 1.90 kg, thickness = 0,4 mm
70 100 405	H 2,600 x W 1,300 mm, 2.00 kg, thickness = 0,4 mm
70 100 406	H 2,800 x W 1,300 mm, 2.20 kg, thickness = 0,4 mm
70 100 407	H 3,000 x W 1,300 mm, 2.30 kg, thickness = 0,4 mm
70 100 421	custom size per m ²

Welding Protection Curtain, Dark Green



Welding Protection Curtain S7, Green



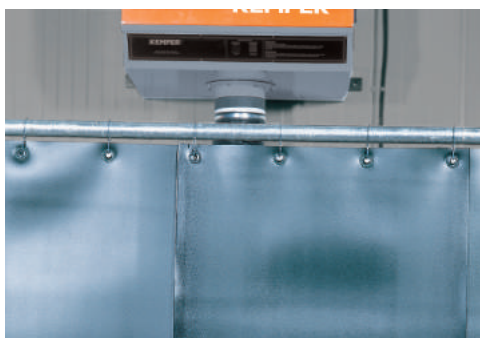
Welding Protection Curtain, Red



Protection Curtain, Clear



» Welding strip curtains

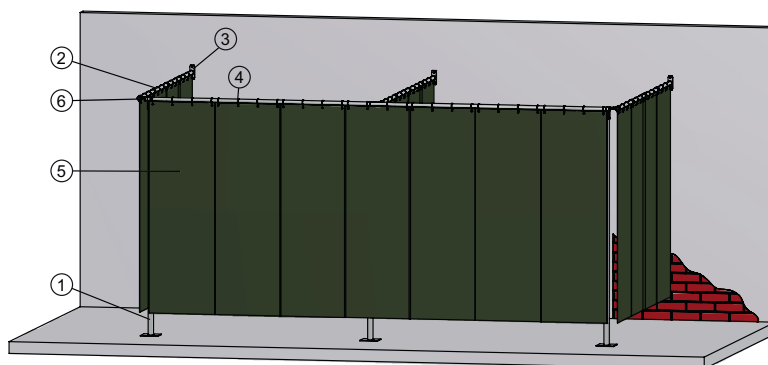


Example

of a welding curtain system
W 4,000 x D 2,000 x H 2,000 mm
with welding strip curtain S9, dark green, matt,
ground clearance 200 mm:

- ① 3 x column for 1" pipe, Part No. 70 180 110
- ② 2 x 6 m 1" pipe, Part No. 70 190 144
- ③ 3 x all mounting plate for 1" pipe,
Part No. 70 190 135
- ④ 7 x sets of metal hooks for 1" pipe,
(70 pieces), Part No. 70 120 109
- ⑤ 20 x welding curtains S9, dark green, matt,
H 1,800 x W 570 mm, Part No. 70 250 101
- ⑥ 5 x end cap for 1" pipe Part No 70 190 133

Metal hook suspended welding curtains for 1" pipe

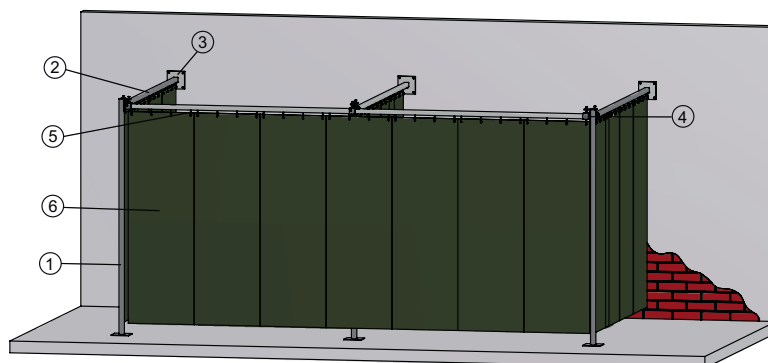


Example

of a welding curtain system
W 4,000 x D 2,000 x H 2,000 mm
with welding strip curtain S9, dark green, matt,
ground clearance 200 mm:

- ① 3 x column for C-profile, Part No. 70 180 109
- ② 2 x 6 m C-profile, Part No. 70 124 106
- ③ 3 x wall mounting plate for C-profile,
Part No. 70 190 113
- ④ 5 x end caps for C-profile, Part No. 70 120 107
- ⑤ 7 x sets of metal hooks (70 pieces),
Part No. 70 120 112
- ⑥ 20 x welding curtains S9, dark green, matt
H 1,800 x W 570 mm, Part No. 70 250 101

Sliding hook suspended welding curtains for C-profile



Welding strip curtains

Properties

- » For fixing on a tube or a C-profile
- » Reinforced eyelets for fixing
- » Safety panel curtain in colour S0, clear is self-extinguishing, class K 1, as per DIN 53 438, part 2
- » Welding panel curtain is tested as per DIN EN ISO 25980

Applications

- » For separating individual work and factory areas
- » Protection against harmful radiation, welding arcs and spatter
- » visual protection
- » Light dimming

Benefits

- » Curtain can be moved aside due to fastening using eyelets or sliding hooks
- » Rugged suspension system due to reinforced eyelets

Welding Strip Curtain S9, Dark Green, Matt, DIN EN ISO 25980

Art. No.	Description
70 250 100	H 1,600 x W 570 mm, thickness = 1,0 mm
70 250 101	H 1,800 x W 570 mm, thickness = 1,0 mm
70 250 102	H 2,000 x W 570 mm, thickness = 1,0 mm
70 250 103	H 2,200 x W 570 mm, thickness = 1,0 mm
70 250 104	H 2,400 x W 570 mm, thickness = 1,0 mm
70 250 105	H 2,600 x W 570 mm, thickness = 1,0 mm
70 250 106	H 2,800 x W 570 mm, thickness = 1,0 mm



Welding Strip Curtain red, DIN EN ISO 25980

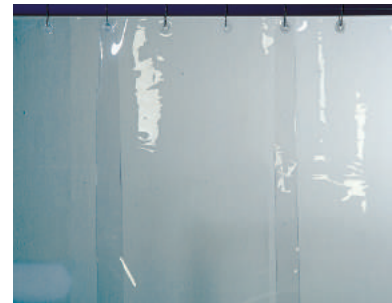
Art. No.	Description
70 250 400	H 1,600 x W 570 mm, thickness = 1,0 mm
70 250 401	H 1,800 x W 570 mm, thickness = 1,0 mm
70 250 402	H 2,000 x W 570 mm, thickness = 1,0 mm
70 250 403	H 2,200 x W 570 mm, thickness = 1,0 mm
70 250 404	H 2,400 x W 570 mm, thickness = 1,0 mm
70 250 405	H 2,600 x W 570 mm, thickness = 1,0 mm
70 250 406	H 2,800 x W 570 mm, thickness = 1,0 mm



Welding Strip Curtain S0, Transparent

Transparent protection curtain protects against dust, draft, moisture and grinding sparks.

Art. No.	Description
70 250 500	H 1,600 x W 570 mm, thickness = 1,0 mm
70 250 501	H 1,800 x W 570 mm, thickness = 1,0 mm
70 250 502	H 2,000 x W 570 mm, thickness = 1,0 mm
70 250 503	H 2,200 x W 570 mm, thickness = 1,0 mm
70 250 504	H 2,400 x W 570 mm, thickness = 1,0 mm
70 250 505	H 2,600 x W 570 mm, thickness = 1,0 mm
70 250 506	H 2,800 x W 570 mm, thickness = 1,0 mm



» Welding protection strips

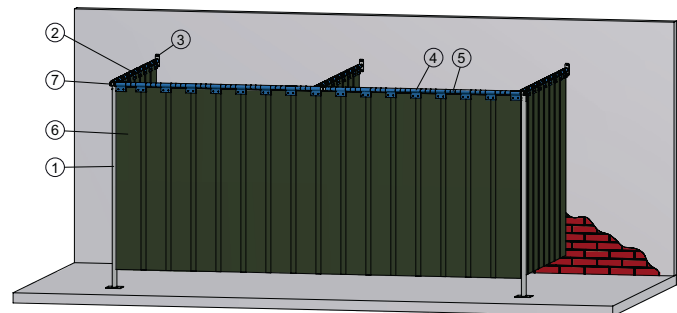
Welding protection strips



Example

of a welding protection strip system
W 4,000 x D 2,000 x H 2,000 mm with welding strips S9,
dark green, matt, ground clearance 200 mm:

- ① 3 x column for 1" pipe, Part No. 70 180 110
- ② 2 x 6 m 1" pipe, Part No.: 70 190 144
- ③ 3 x wall mounting plate for 1" pipe, Part No. 70 190 135
- ④ 45 x pendular strip suspension clip, Part No. 70 190 127
- ⑤ 110 x spacer for 1" pipe, Part No. 70 190 129
- ⑥ 80 m welding protection strip S9, dark green, matt,
Part No. 70 209 032
- ⑦ 5 x end cap for 1" pipe Part No. 70 190 133
40 x cutting and punching



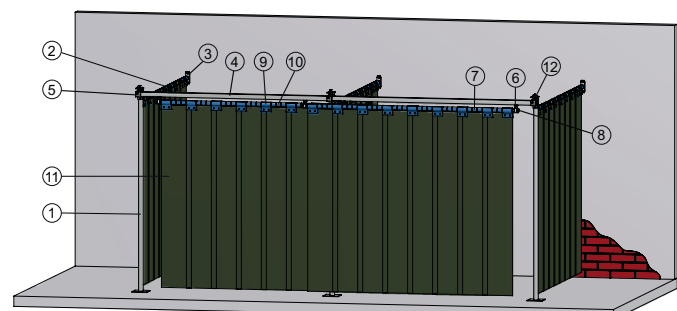
Lateral sliding welding protection strips



Example

of a lateral sliding welding protection strip system
W 4,000 x D 2,000 x H 2,000 mm with welding protection strips S9,
dark green, matt, ground clearance 200 mm:

- ① 3 x column for 1" pipe, Part No. 70 180 110
- ② 1 x 6 m 1" pipe, Part No. 70 190 144
- ③ 3 x wall mounting plate for 1" pipe, Part No. 70 190 135
- ④ 2 x 6 m C-profile, Part No. 70 124 106
- ⑤ 4 x end cap for C-profile, Part No. 70 120 107
- ⑥ 4 x travelling device for 1" pipe, Part No. 70 190 148
- ⑦ 1 x 6 m 1" pipe, Part No. 70 190 144
- ⑧ 4 x end cap for 1" pipe, Part No. 70 190 133
- ⑨ 45 x pendular strip suspension clip, Part No. 70 190 127
- ⑩ 110 x spacer for 1" pipe, Part No. 70 190 129
- ⑪ 80 m welding protection strip S9, dark green, matt, Part No. 70 209 032
- ⑫ 6 x universal rail fixing device for C-profile Part No. 70 190 112
40 x cutting and punching



Benefits

- » Individual protection configuration by selecting degree of overlap
- » Can be moved aside due to being attached to C-profile
- » Passages can be created at several points in the partition since the individual elements in combination with a C-profile can be pushed aside in both directions
- » Installation made easier and time is saved when mounted on folding KEMPER suspension brackets

Welding protection strips

Applications

- » For separating individual work and factory areas
- » Protection against harmful radiation, welding arcs and spatter
- » visual protection
- » Light dimming

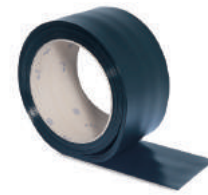
Properties

- » DIN EN ISO 25980 certified
- » Suspension by means of suspension brackets or pipe clamps on a tube or C-profile
- » Strip overlap of 33%, 66% or 100%
- » Can be installed in fixed position or laterally movable

Welding Protection Strip S9, Dark Green, DIN EN ISO 25980

Per metre - maximum length 50m per roll

Art. No.	Description
70 209 032	300 x 2 mm, per metre, 0.80 kg/m
70 209 033	300 x 3 mm, per metre, 1.20 kg/m



Welding Protection Strip S7, Green, DIN EN ISO 25980

Per metre - maximum length 50m per roll

Art. No.	Description
70 204 032	300 x 2 mm, per metre, 0.80 kg/m
70 204 033	300 x 3 mm, per metre, 1.20 kg/m



Welding Protection Strip Red, DIN EN ISO 25980

Per metre - maximum length 50m per roll

Art. No.	Description
70 202 032	300 x 2 mm, per metre, 0.80 kg/m
70 202 033	300 x 3 mm, per metre, 1.20 kg/m



Welding Protection Strip Bronze, DIN EN ISO 25980

Per metre - maximum length 50m per roll

Art. No.	Description
70 203 032	300 x 2 mm, per metre, 0.80 kg/m
70 203 033	300 x 3 mm, per metre, 1.20 kg/m



Protection Strip S0, Transparent

Per metre - maximum length 50m per roll

Art. No.	Description
70 201 032	300 x 2 mm, per metre, 0.80 kg/m
70 201 033	300 x 3 mm, per metre, 1.20 kg/m
70 201 044	400 x 4 mm, per metre, 2.00 kg/m
70 201 035	300 x 5 mm, per metre, 1.90 kg/m





Cutting and punching of welding protection strips

Art. No.	Description
70 210 033	Cutting and punching for clips and an overlap of 33 %
70 210 066	Cutting and punching for clips and an overlap of 66 %
70 210 100	Cutting and punching for clips and an overlap of 100 %
70 211 033	Cutting and punching for pipe clamps and an overlap of 33 %
70 211 066	Cutting and punching for pipe clamps and an overlap of 66 %
70 211 100	Cutting and punching for pipe clamps and an overlap of 100 %
70 210 000	Cutting of welding protection strips

Pivoting Self Retracting Cable Reel

- » For curtains
- » Up to 8.0 m



Properties

- » Pivoting if no curtain is stretched in place
- » Consisting of a wire rope, a reel and bracket

Applications

- » For setting up a welding protection curtain up to a width of 8.0 m
- » visual protection
- » Separating individual work and factory areas

Benefits

- » Space-saving because curtain and wire rope reel can be easily folded aside
- » Quickly ready for use since only the wire rope is tensed to position the curtain
- » Totally adaptable to your needs, since the preferred hanging height and the height of the curtains can be chosen as desired

Order Data

Art. No.	Description
70 110 101	Pivoting self retracting cable reel for curtains, 13.00 kg

The KEMPER-pendular suspension clip

The big disadvantage of common strip suspensions and spacers are that they can only be mounted to the rail before erection.

After this, every single strip needs to be mounted to the strip suspensions with nuts and bolts, which is a complicated and time consuming procedure.

The folding KEMPER suspension clip offers a much easier and time saving installation.

The clips are delivered open and after finishing the installation of the rail system the suspension clip can simply be folded around the rail.

Subsequent to this, every single strip can easily be inserted into the suspension clip and held in place by special retaining rivets. The spacers work on the same principle.







1" pipe

Material thickness 3,25 mm, galvanised

Art. No.	Description
70 190 145	1" pipe, length 3 m, 7,50 kg
70 190 144	1" pipe, length 6 m, 15,00 kg



End cap for 1" pipe

Made out of plastic

Art. No.	Description
70 190 133	End cap for 1" pipe, plastic, 0,01 kg



Pipe clamp

Incl. nut and bolt

Art. No.	Description
70 190 132	Pipe clamp, galvanised, 0,10 kg



Metal hook for 1" pipe

To suspend welding curtains and welding strip curtains on a 1" pipe - galvanised, 7 metal hooks needed per curtain

Art. No.	Description
70 120 109	Metal hook for 1" pipe, 10 pieces / per set, 0,10 kg
70 120 110	Metal hook for 1" pipe, 13 pieces / per set, 0,13 kg
70 120 111	Metal hook for 1" pipe, 50 pieces / per set, 0,50 kg



Straight coupler for 1" pipe

Made of plastic, supplied with steel inlay

Art. No.	Description
70 190 147	Straight coupler for 1" pipe, plastic, 0,10 kg

Wall and ceiling fixture for 1" pipe

Art. No.	Description
70 190 123	Wall and ceiling fixture for 1" pipe, galvanised, 0.40 kg



Wall mounting fixture for 1" pipe

Art. No.	Description
70 190 135	Wall mounting fixture for 1" pipe, galvanised, 0.60 kg



Column for 1" pipe

Galvanised, incl. foot and pipe fixture

Art. No.	Description
70 180 110	Column for 1" pipe, adjustable height 2,000 up to 3,000 mm, 60 x 60 x 2.5 mm, with foot plate 200 x 200 mm, 14.00 kg



Ceiling fixture with lowering device for 1" pipe

Galvanised, lowering from 1,000 mm to 6,000 mm

Art. No.	Description
70 190 121	Ceiling fixture with lowering device for 1" pipe, galvanised, 3.00 kg





C-profile, 40 x 40 x 2.5 mm

Material thickness 2.5 mm, galvanised

Art. No.	Description
70 124 107	C-profile, 40 x 40 x 2.5 mm, length 3 m, 7.50 kg
70 124 106	C-profile, 40 x 40 x 2.5 mm, length 6 m, 15.00 kg



90°-elbow for C-profile

Galvanised, 40 x 40 x 2,5 mm

Art. No.	Description
70 124 102	90°-elbow for C-profile, radius 400 mm, 2.60 kg
70 124 103	90°-elbow for C-profile, radius 1,000 mm, 3.90 kg



Straight coupler for C-profile

Art. No.	Description
70 190 105	Straight coupler for C-profile, galvanised, 0.65 kg



T-coupler for C-profile

Art. No.	Description
70 190 107	T-coupler for C-profile, galvanised, 1.30 kg



Sliding hooks for C-profile

To suspend welding curtains and welding strip curtains on a C-profile - made of plastic, 7 sliding hooks needed per curtain

Art. No.	Description
70 120 112	Sliding hooks for C-profile, 10 pieces / per set, 0,10 kg
70 120 117	Sliding hooks for C-profile, 13 pieces / per set, 0.13 kg
70 120 113	Sliding hooks for C-profile, 50 pieces / per set, 0,50 kg



End cap for C-profile

Art. No.	Description
70 120 107	End cap for C-profile, Plastic, 0.01 kg

Ceiling fixture for C-profile

Art. No.	Description
70 190 108	Ceiling fixture for C-profile, galvanised, 0,40 kg



Ceiling fixture for double-C-profile

Art. No.	Description
70 190 110	Ceiling fixture for double-C-profile, galvanised, 0,80 kg



Wall fixture for C-profile

Art. No.	Description
70 190 113	Wall fixture for C-profile, galvanised, 1,30 kg



Wall fixture for double-C-profile

Art. No.	Description
70 190 138	Wall fixture for double-C-profile, galvanised, 1,90 kg



Side wall fixture for C-profile

Art. No.	Description
70 190 115	Side wall fixture for C-profile, galvanised, 0,68 kg



Side wall fixture for double-C-profile

Art. No.	Description
70 190 117	Side wall fixture for double-C-profile, galvanised, 1,30 kg





Limit stop for C-profile

With rubber bumper

Art. No.	Description
70 120 100	Limit stop for C-profile, galvanised, 0.10 kg



Ceiling fixture with lowering device for C-profile

Galvanised, lowering from 1.000 mm to 6.000 mm

Art. No.	Description
70 190 120	Ceiling fixture with lowering device for C-profile, galvanised, 3.00 kg



Universal rail fixing device for C-profile

Art. No.	Description
70 190 112	Universal rail fixing device for C-profile, galvanised, 0.36 kg



Carriage with 8 plastic rollers

Made of plastic

Art. No.	Description
70 120 118	Carriage with 8 plastic rollers and hooks to suspend welding strip curtains, plastic, 0.03 kg



Carriage with two ball bearing rollers

Made of metal

Art. No.	Description
70 190 148	Carriage with two ball bearing rollers and a pipe clamp suitable for a 1" pipe, metal, 0.22 kg

Carriage for C-Profile

Art. No.	Description
70 190 159	Carriage for C-Profile, with 2 ball bearing steel rollers and plastic hook to hang welding protection curtains from



Column for C-profile

Galvanised, incl. foot and C-profile fixture

Art. No.	Description
70 180 109	Column for C-profile, adjustable height 2,000 up to 3,000 mm, 60 x 60 x 2.5 mm, with foot plate 200 x 200 mm, 14.00 kg



Pendular clip for a 1" pipe including fixture nuts and bolts

Made of plastic (to be ordered in batches of 5)

Art. No.	Description
70 190 127	Pendular clip for a 1" pipe including fixture nuts and bolts, plastic, 0.08 kg (to be ordered in batches of 5)



Spacer for 1" pipe

Made of plastic (to be ordered in batches of 10)

Art. No.	Description
70 190 129	Spacer for 1" pipe, plastic, 0.02 kg, (to be ordered in batches of 10)



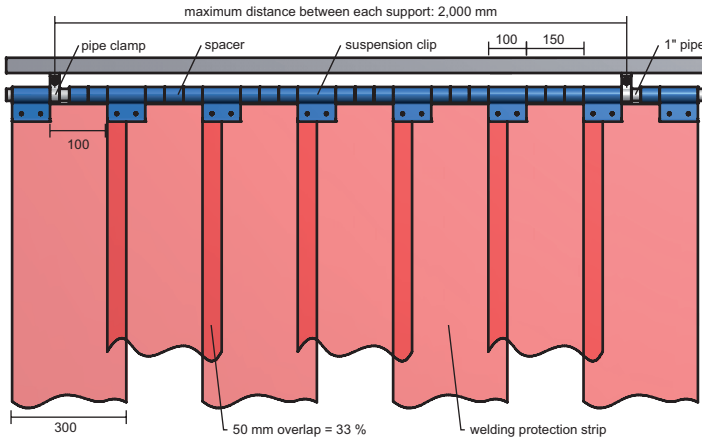
Pipe clamp for 1" pipe

Galvanised

Art. No.	Description
70 190 128	Pipe clamp for 1" pipe, galvanised, 0,20 kg



Overlap 33 %

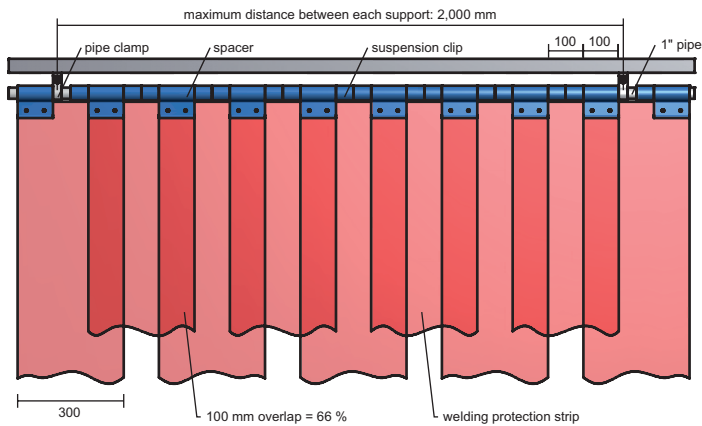


The drawing and table below show the exact quantity of parts required, based on the total width of welding protection strips.

- Attention:
- Fixed installation: only wall and ceiling fixtures (no travelling devices)
 - Lateral sliding installation: C-profile = double curtain width
 - Wall and ceiling fixtures for C-profile = 2 x travelling devices

Curtain width and pipe length	mm	550	800	1,050	1,300	1,550	1,800	2,050	2,300	2,550	2,800	3,050	3,300	3,550	3,800	4,050	4,300	4,550	4,800	5,050	5,300	5,550	5,800	6,050	6,300	6,550	6,800	7,050	7,300	7,550	7,800
Welding strips	pieces	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Suspension clips	pieces	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Spacers pieces	pieces	3	6	9	12	15	18	21	23	26	29	32	35	38	41	43	46	49	52	55	58	61	64	66	69	72	75	78	81	84	87
Ceiling fixtures or travelling devices	pieces	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5

Overlap 66 %

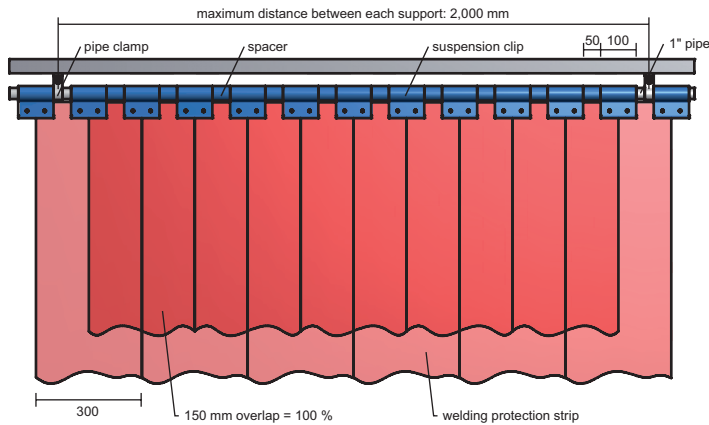


The drawing and table below show the exact quantity of parts required, based on the total width of welding protection strips.

- Attention:
- Fixed installation: only wall and ceiling fixtures (no travelling devices)
 - Lateral sliding installation: C-profile = double curtain width
 - Wall and ceiling fixtures for C-profile = 2 x travelling devices

Curtain width and pipe length	mm	500	700	900	1,100	1,300	1,500	1,700	1,900	2,100	2,300	2,500	2,700	2,900	3,100	3,300	3,500	3,700	3,900	4,100	4,300	4,500	4,700	4,900	5,100	5,300	5,500	5,700	5,900	6,100	6,300
Welding strips	pieces	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Suspension clips	pieces	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Spacers pieces	pieces	2	4	6	8	10	12	14	16	17	19	21	23	25	27	29	31	33	35	36	38	40	42	44	46	48	50	52	54	55	57
Ceiling fixtures or travelling devices	pieces	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5	5

Overlap 100 %



The drawing and table below show the exact quantity of parts required, based on the total width of welding protection strips.

- Attention:
- Fixed installation: only wall and ceiling fixtures (no travelling devices)
 - Lateral sliding installation: C-profile = double curtain width
 - Wall and ceiling fixtures for C-profile = 2 x travelling devices

Curtain width and pipe length	mm	450	600	750	900	1,050	1,200	1,350	1,500	1,650	1,800	1,950	2,100	2,250	2,400	2,550	2,700	2,850	3,000	3,150	3,300	3,450	3,600	3,750	3,900	4,040	4,200	4,350	4,500	4,650	4,800
Welding strips	pieces	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Suspension clips	pieces	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Spacers pieces	pieces	1	2	3	4	5	6	7	8	9	10	11	11	12	13	14	15	16	17	18	19	20	21	22	23	23	24	25	26	27	28
Ceiling fixtures or travelling devices	pieces	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4

Cutting and punching of welding protection strips

Art. No.	Description
70 210 033	Cutting and punching for clips and an overlap of 33 %
70 210 066	Cutting and punching for clips and an overlap of 66 %
70 210 100	Cutting and punching for clips and an overlap of 100 %
70 211 033	Cutting and punching for pipe clamps and an overlap of 33 %
70 211 066	Cutting and punching for pipe clamps and an overlap of 66 %
70 211 100	Cutting and punching for pipe clamps and an overlap of 100 %
70 210 000	Cutting of welding protection strips



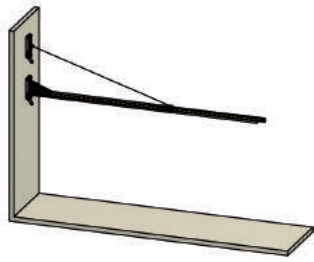
Rigid screens

Rigid screens for use in protection cabins

Art. No.	Description
70 830 27	Rigid screen, red shade 3, UV protection, 1,250 x 2,050 mm, thickness: 3 mm
70 830 28	Rigid screen S9, dark green shade 6, UV protection, 1,250 x 2,050 mm, thickness: 3 mm
70 212 100	Cut to measured sizes (+ 10 % to cover wastages)



Pivoting Arm For Welding Curtains



Applications

- » For separating individual work and factory areas
- » Protection against harmful radiation, welding arcs and spatter

Properties

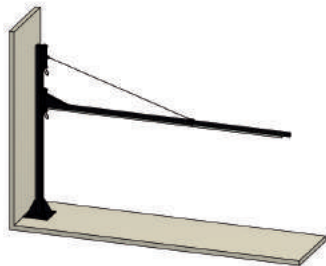
- » For curtain version: C-Profile for fitting
- » For curtain and panel version: Pipe (1") for fitting
- » Length from 2 m to 6 m
- » For wall mounting

Order Data

Art. No.	Description
70 700 250	For welding curtains: Length 2,000 mm
70 700 251	For welding curtains: Length 3,000 mm
70 700 252	For welding curtains: Length 4,000 mm
70 700 253	For welding curtains: Length 5,000 mm
70 700 254	For welding curtains: Length 6,000 mm
70 700 255	For welding curtains and welding strip, Length: 2,000 mm
70 700 256	For welding curtains and welding strip, Length: 3,000 mm
70 700 257	For welding curtains and welding strip, Length: 4,000 mm
70 700 258	For welding curtains and welding strip, Length: 5,000 mm
70 700 259	For welding curtains and welding strip, Length: 6,000 mm

*Note: Additional guy wire is provided only for pivoting arms with length of 5 m and 6 m.

Pivoting Arm, Column Mounted



Applications

- » For separating individual work and factory areas
- » Protection against harmful radiation, welding arcs and spatter

Properties

- » For curtain version: C-Profile for fitting
- » For curtain and panel version: Pipe (1") for fitting
- » Length from 2 m to 6 m
- » For wall mounting

Order Data

Art. No.	Description
70 700 650	For welding curtains: Length 2,000 mm
70 700 651	For welding curtains: Length 3,000 mm
70 700 652	For welding curtains: Length 4,000 mm
70 700 653	For welding curtains: Length 5,000 mm
70 700 654	For welding curtains: Length 6,000 mm
70 700 655	For welding curtains and welding strip, Length: 2,000 mm
70 700 656	For welding curtains and welding strip, Length: 3,000 mm
70 700 657	For welding curtains and welding strip, Length: 4,000 mm
70 700 659	For welding curtains and welding strip, Length: 5,000 mm
70 700 660	For welding curtains and welding strip, Length: 6,000 mm

*Note: Additional guy wire is provided only for pivoting arms with length of 5 m and 6 m.

Swivel Arm Wall Mounted, Lockable And Telescopic

- » For curtains and protection strips
- » Lockable and telescopic

Applications

- » For flexibly separating individual work and factory areas
- » For protective welding curtains and strips
- » Protection against harmful radiation, welding arcs and spatter

Properties

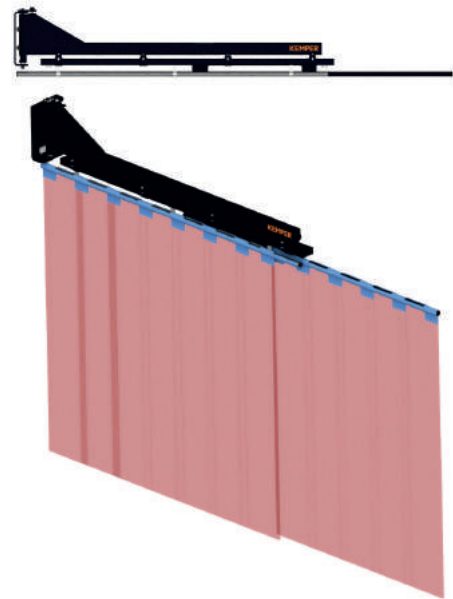
- » Can be locked into position
- » Length 1.5 m and 2 m
- » Telescopically extendable to 2 m and 3 m
- » Tube (1") for attaching welding curtains
- » Mounting on a pillar or on a wall using a wall bracket

Benefits

- » Partition can be extended or pushed together flexibly due to telescoping facility
- » Easy operation of the telescoping facility by means of a chain
- » Increased safety for persons and equipment due to locking.
- » Space-saving because the pivoting arm can easily be folded aside
- » Fast set-up of partition by simply unfolding the pivoting wall arm

Variants

- » Various arm lengths and telescopic lengths



Order Data

Art. No.	Description
131 5570	Latching and telescop, 1,5 m - 2 m
131 4874	Latching and telescop, 2 m - 3 m



1-Panel Protective Screen With Curtain



Applications

- » Protection against harmful radiation, welding arcs and spatter

Properties

- » Foil welding curtain fabric
- » Colour S0, clear is self-extinguishing, class K 1, as per DIN 53 438, part 2
- » Colour S7, S9 Dark Green and Red are DIN EN ISO 25980 certified
- » Low weight
- » Ground clearance 100 mm

Scope Of Supply

- » Support frame
- » Welding curtain
- » Fixing material

Technical Data

Basic data	
Width	1450 mm
Height	1900 mm
Thickness	0.4 mm

Order Data

Art. No.	Description
70 600 301	S9, dark green, matt
70 600 302	S7, green
70 600 304	red
70 600 303	Transparent, S0, against dust, draft

1-Panel Protective Screen With Curtain



Applications

- » Protection against harmful radiation, welding arcs and spatter

Properties

- » Sturdy frame made of rectangular tubing
- » Colour S0, clear is self-extinguishing, class K 1, as per DIN 53 438, part 2
- » Colour S7, S9 Dark Green and Red are DIN EN ISO 25980 certified
- » Wheel kit (optional)
- » Ground clearance 165 mm

Scope Of Supply

- » Support frame
- » Welding curtain
- » Metal hooks

Technical Data

Basic data	
Width	2100 mm
Height	1830 mm
Thickness	0.4 mm

Order Data

Art. No.	Description
70 600 500	S9, dark green, matt
70 600 503	S7, green
70 600 501	red
70 600 502	Transparent, S0, against dust, draft
70 600 699	3-panel mobile protective screen with curtain, accessories: set of castors, consisting of four guide roller, two with brakes

3-Panel Protective Screen With Curtain

Applications

- » Protection against harmful radiation, welding arcs and spatter

Benefits

- » Extremely flexible due to the pivoting arms and optional wheel kit

Properties

- » Stable, 3-section support frame (base frame with 2 unfolding pivoting arms)
- » Colour S0, clear is self-extinguishing, class K 1, as per DIN 53 438, part 2
- » Colour S7, S9 Dark Green and Red are DIN EN ISO 25980 certified
- » Wheel kit (optional)
- » Ground clearance 165 mm

Scope Of Supply

- » Support frame
- » Welding curtain
- » Metal hooks



Order Data

Art. No.	Description
70 600 550	S9, dark green, matt
70 600 560	S7, green
70 600 551	red
70 600 552	Transparent, S0, against dust, draft
70 600 699	3-panel mobile protective screen with curtain, accessories: set of castors, consisting of four guide roller, two with brakes

Technical Data

Basic data	
Width	3800 mm
Height	1830 mm
Thickness	0.4 mm



1-Panel Protective Screen With Protection Strips



Applications

- » Protection against harmful radiation, welding arcs and spatter

Properties

- » Sturdy frame made of rectangular tubing
- » Colour S0, clear is self-extinguishing, class K 1, as per DIN 53 438, part 2
- » S9 dark green and red are DIN EN ISO 25980 tested
- » Wheel kit (optional)
- » Ground clearance 165 mm

Scope Of Supply

- » Support frame
- » Strips
- » Metal hooks

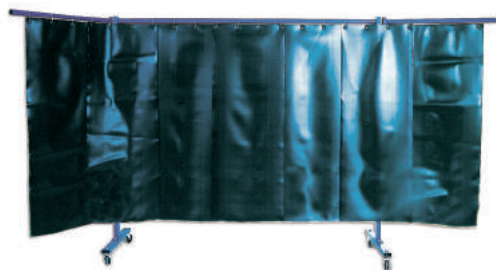
Technical Data

Basic data	
Width	2100 mm
Height	1830 mm
Thickness	1 mm

Order Data

Art. No.	Description
70 600 701	S9, dark green, matt
70 600 702	Red
70 600 703	S0, Transparent, against dust and draft
70 600 699	3-panel mobile protective screen with curtain, accessories: set of castors, consisting of four guide roller, two with brakes

3-Panel Protective Screen With Protection Strips



Applications

- » Protection against harmful radiation, welding arcs and spatter

Properties

- » Stable, 3-section support frame (base frame with 2 unfolding pivoting arms)
- » Welding strip curtain complies with DIN EN ISO 25980
- » Wheel kit (optional)
- » Ground clearance 165 mm

Scope Of Supply

- » Support frame
- » Strips
- » Metal hooks

Technical Data

Basic data	
Width	3800 mm
Height	1830 mm
Thickness	1 mm

Order Data

Art. No.	Description
70 600 664	S9, dark green, matt
70 600 665	Red
70 600 699	3-panel mobile protective screen with curtain, accessories: set of castors, consisting of four guide roller, two with brakes

1-Panel Protective Screen With Protection Strips

Properties

- » Sturdy frame made of rectangular tubing
- » Colour S0, clear is self-extinguishing, class K 1, as per DIN 53 438, part 2
- » S9 dark green and red are DIN EN ISO 25980 tested
- » Wheel kit (optional)
- » Width: 2.10 m, height: 1.83 m, ground clearance: 470 mm

Scope Of Supply

- » Support frame
- » Strips
- » Suspension brackets
- » Spacers

Order Data

Art. No.	Description
70 600 600	S9, dark green, matt, Thickness: 2mm
70 600 601	S9, dark green, matt, Thickness: 3mm
70 600 602	Red, Thickness: 2 mm
70 600 603	Red, Thickness: 3 mm
70 600 604	S0, Transparent, Thickness: 2mm, against dust and draft
70 600 605	S0, Transparent, Thickness: 3mm, against dust and draft
70 600 699	3-panel mobile protective screen with curtain, accessories: set of castors, consisting of four guide roller, two with brakes



3-Panel Protective Screen With Protection Strips

Properties

- » Stable, 3-section support frame (base frame with 2 unfolding pivoting arms)
- » Colour S0, clear is self-extinguishing, class K 1, as per DIN 53 438, part 2
- » S9 dark green and red are DIN EN ISO 25980 tested
- » Wheel kit (optional)
- » Width: 3.80 m (central panel 2.10 m + 2 swivelling arms, 0,85 m each), height: 1.83 m, ground clearance: 470 mm

Scope Of Supply

- » Support frame
- » Strips
- » Suspension brackets
- » Spacers

Order Data

Art. No.	Description
70 600 650	S9, dark green, matt, Thickness: 2mm
70 600 651	S9, dark green, matt, Thickness: 3mm
70 600 652	Red, Thickness: 2 mm
70 600 653	Red, Thickness: 3 mm
70 600 654	S0, Transparent, Thickness: 2mm, against dust and draft
70 600 655	S0, Transparent, Thickness: 3mm, against dust and draft
70 600 699	3-panel mobile protective screen with curtain, accessories: set of castors, consisting of four guide roller, two with brakes



Booths

Using KEMPER soundproof partitioning systems, it is possible to erect fully enclosed booths within a manufacturing facility.

The individual plates can be supplied either in a perforated sheet version, or, for improved sound insulation, from perforated sheet on the inside and solid sheet on the outside.

Naturally we can assist you in planning the booths to meet your requirements.

The grinding booths are available in the following versions:

1. Enclosed booth with a double-hinged door

The roof of the booth consists of two segments. The double-hinged doors can be secured with a bolt and the door can be locked.

2. Enclosed booth with hinged door

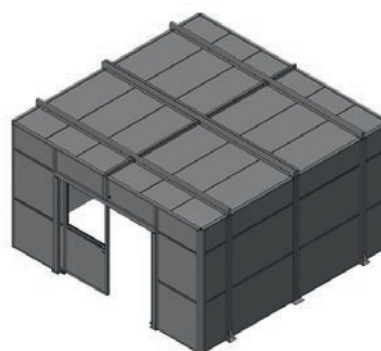
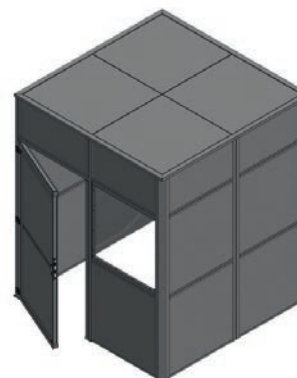
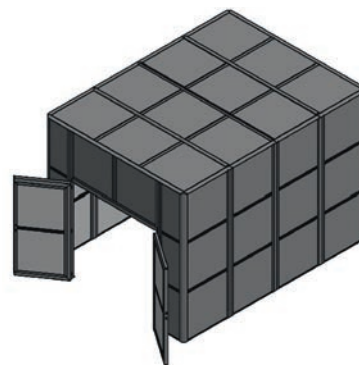
The basis of the roof is a solid framework and next to the hinged door is a window with a pane of clear Perspex. The hinged door can be locked.

3. Enclosed booth with double sliding door

The roof of the booth consists of box elements and the entire cabin is mainly constructed from standard partitioning elements. The double sliding window is made of clear Perspex.

4. Enclosed booth with sliding door

The construction of this booth is based on standard components and a roof of frame segments. The sliding door features a red protective pane at the top.



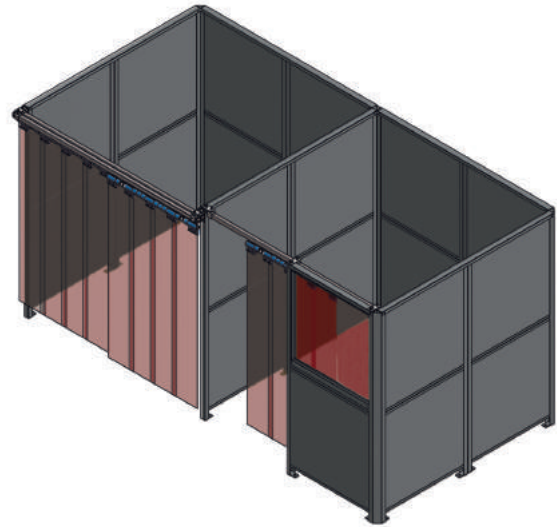
Contact us directly for detailed information on our sound insulating partitioning wall systems and wall partitioning systems!

Tel. +44 (0) 1327 872 909 or +49 (0) 2564 68 0 or mail@kemper.eu

Equipment for schools

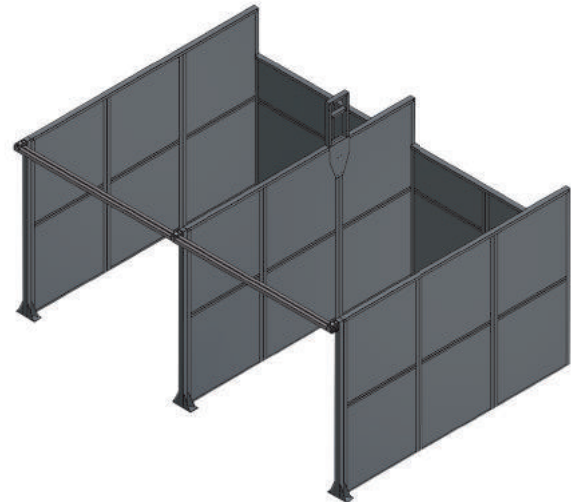
KEMPER sound insulating and partitioning wall systems are also available for schools and training workshops.

Different versions of the booths allow students to be observed either through a window or through the entrance of the booth. The openings can be separated either through a fixed curtain system or one that can be pushed to one side.



Wall partitioning system

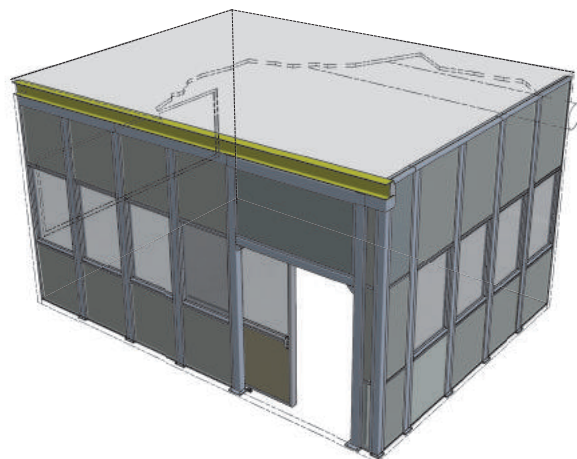
This example shows different possibilities of construction with modular elements.

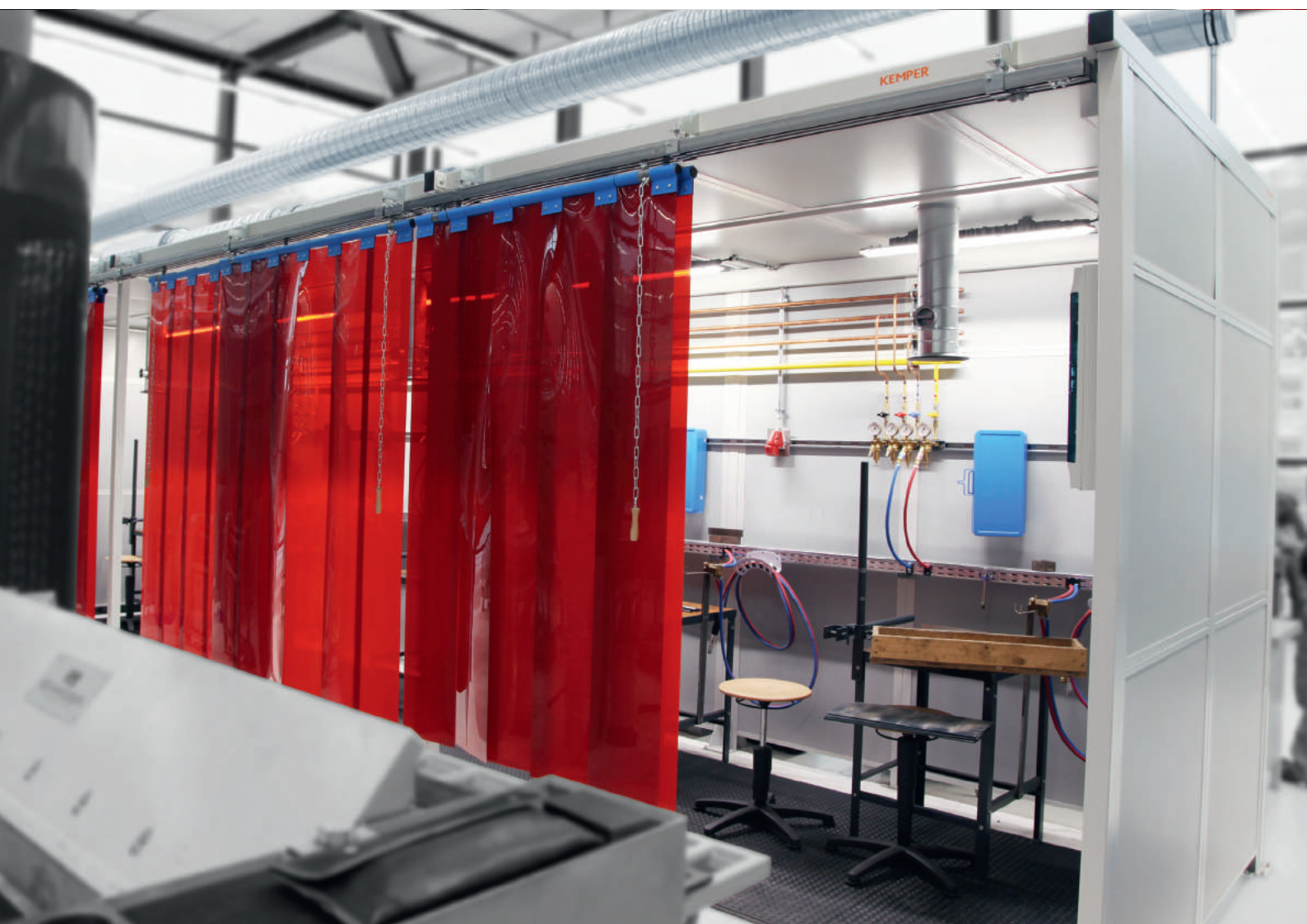
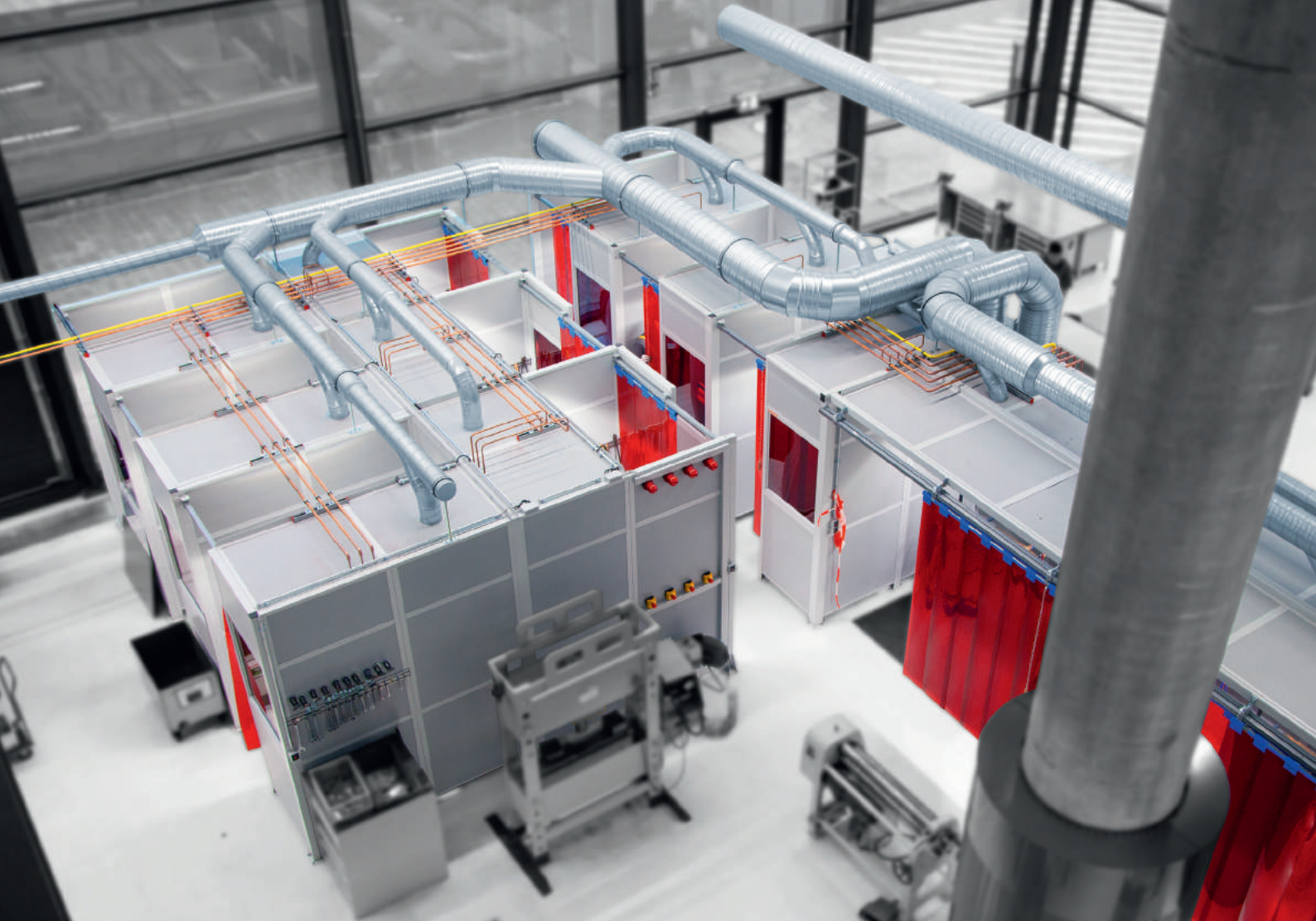


Workshop partitioning

If you want a work area to be partitioned as far up as the ceiling, our workshop partitioning is the answer.

The pictures show how two walls with protective windows and sliding doors form a new room in a workshop.







Sound insulating partitioning wall systems

Can be combined as required for various applications



The KEMPER sound insulating partitioning wall system can be built into any design combination due to different modular elements.

The modular elements consist of perforated plates, which are finished with UV-ray absorbent powder coating. Each element consists of perforated plates and a filling of compressed mineral wool according to DIN 4102, which is also finished with UV-ray absorbent powder coating.

Out of these components it is easy to construct complete welding bays, in which exhaust arms could be mounted.

The outside facing columns can be fitted with different mounting devices for curtains, welding strips, etc.



Grinding booth with roof

- » Enclosed with roof
- » With folding door and window

Properties

- » Enclosed grinding booth with folding door, window and roof
- » Soundproof elements from laminated mineral wool, 1 x 50 mm thick, exterior full metal, interior perforated metal
- » Solid bolted construction made of sheet metal with powder coating
- » Window, glass pane clear, 860 x 860 mm
- » Folding door, 2,025 x 920 mm

Order Data

Art. No.	Dimensions (w x d x h)	Colour
95 001 112	2200 x 2200 x 2668 mm	grey, RAL 7040
95 001 114	2200 x 3270 x 2668 mm	grey, RAL 7040
95 001 113	3270 x 3270 x 2668 mm	grey, RAL 7040

* further sizes available on enquiry/request



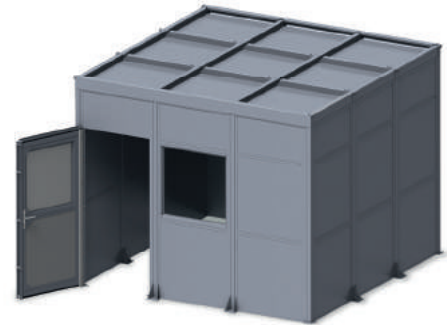
95 001 112



95 001 114



95 001 113



Rigid screens

Rigid screens for use in protection cabins

Art. No.	Description
70 830 27	Rigid screen, red shade 3, UV protection, 1,250 x 2,050 mm, thickness: 3 mm
70 830 28	Rigid screen S9, dark green shade 6, UV protection, 1,250 x 2,050 mm, thickness: 3 mm
70 212 100	Cut to measured sizes (+ 10 % to cover wastages)



Mobile soundproof wall



Applications

- » Protection against noise pollution from neighbouring workstations
- » Protection against radiation, arcs and spatter

Properties

- » Soundproof elements from laminated mineral wool, 2 x 50 mm thick with perforated metal cover and inserted solid metal sheet
- » Solid bolted construction made of sheet metal with powder coating
- » 4 lockable castors, diameter 125 mm for easy movement
- » Low ground clearance for ideal insulation

Order Data

Art. No.	Description	Wall thickness	Ground Clearance	Weight
99 880 2874	(W x D x H): 1,520 x 800 x 2,110 mm	100 mm	90 mm	154.5 kg
99 880 2756	(W x D x H): 2,020 x 800 x 2,110 mm	100 mm	90 mm	174 kg

Attachment soundproof wall



Benefits

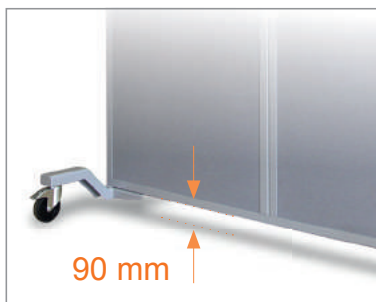
- » Further noise reduction from neighboring workstations.
- » Better protection from UV Rays, welding arc and spatter.

Properties

- » Soundproof elements from laminated mineral wool, 1 x 50 mm thick with perforated metal cover
- » Solid bolted construction made of sheet metal with powder coating

Order Data

Art. No.	Description	Depth of wall with attachment	Height of wall with attachment	Wall thickness	Weight
99 880 2883	(W x D): 1,520 x 500 mm	970 mm	2470 mm	50 mm	41 kg
99 880 2746	(W x D): 2,020 x 500 mm	970 mm	2470 mm	50 mm	53 kg



Welding Blankets 750°C

Properties

- » lined on all sides
- » Made from uncoated glass fibre material
- » Resistant up to 550° C, briefly up to 750° C

Order Data

Art. No.	Description
70 150 100	1,000 x 1,000 mm, 0.75mm thickness
70 150 110	2,000 x 1,000 mm, 0.75 mm thickness
70 150 120	2,000 x 2,000 mm, 0.75 mm thickness
70 150 130	3,000 x 2,000 mm, 0.75 mm thickness



Applications

- » For light loads in vertical use
- » Protection against welding spatter, flying sparks and grinding sparks

Welding Blanket 950°C

Properties

- » lined on all sides
- » Made from vermiculite coated fiberglass
- » Resistant up to 750° C, briefly up to 950° C

Order Data

Art. No.	Description
70 155 100	1000 x 1000 mm, 1 mm thickness
70 155 110	2.000 x 1.000 mm, 1 mm thickness
70 155 120	2.000 x 2.000 mm, 1 mm thickness
70 155 130	3.000 x 2.000 mm, 1 mm thickness



Applications

- » For light loads in vertical use
- » Protection against welding spatter, flying sparks and grinding sparks

Welding Blanket 1,350°C

Properties

- » lined on all sides
- » Made from uncoated silicon dioxide
- » Resistant up to 1100 °C, briefly up to 1,350° C

Order Data

Art. No.	Description
70 160 100	1,000 x 920 mm, 0,7 mm thickness
70 160 110	2,000 x 920 mm, 0,7 mm thickness
70 160 120	2,000 x 1,800 mm, 0,7 mm thickness
70 160 130	3,000 x 1,800 mm, 0,7 mm thickness



Applications

- » For light loads in vertical use
- » Protection against welding spatter, flying sparks and grinding sparks



KEMPER[®]



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»» About us

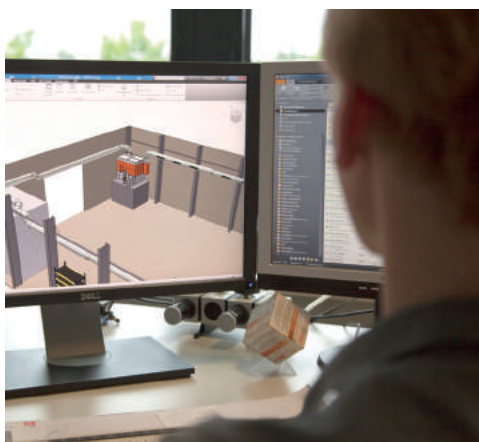
KEMPER was founded in Vreden, Germany, in 1977 and is a pioneer and a leader in technology in the field of welding smoke extraction. That means over 40 years of experience in plant construction for these products, a deep knowledge of the processes in metalworking plants and a high degree of reliability and continuity.

Today, KEMPER is a successful family business. Neither its growth nor its international focus have changed this important aspect of its identity: dealing with KEMPER is personal, as in a family. The satisfaction of its customers and employees is more important than anything else. This is guaranteed by its vast experience coupled with the desire for a reliable, trustworthy cooperation.

KEMPER doesn't fall behind. The innovations in filter devices and extraction equipment are geared to the needs of customers and regularly exceed the specified legal requirements. This results in absolute legal certainty for occupational health & safety and environmental requirements for users.



The KEMPER headquarters in Vreden, Germany.



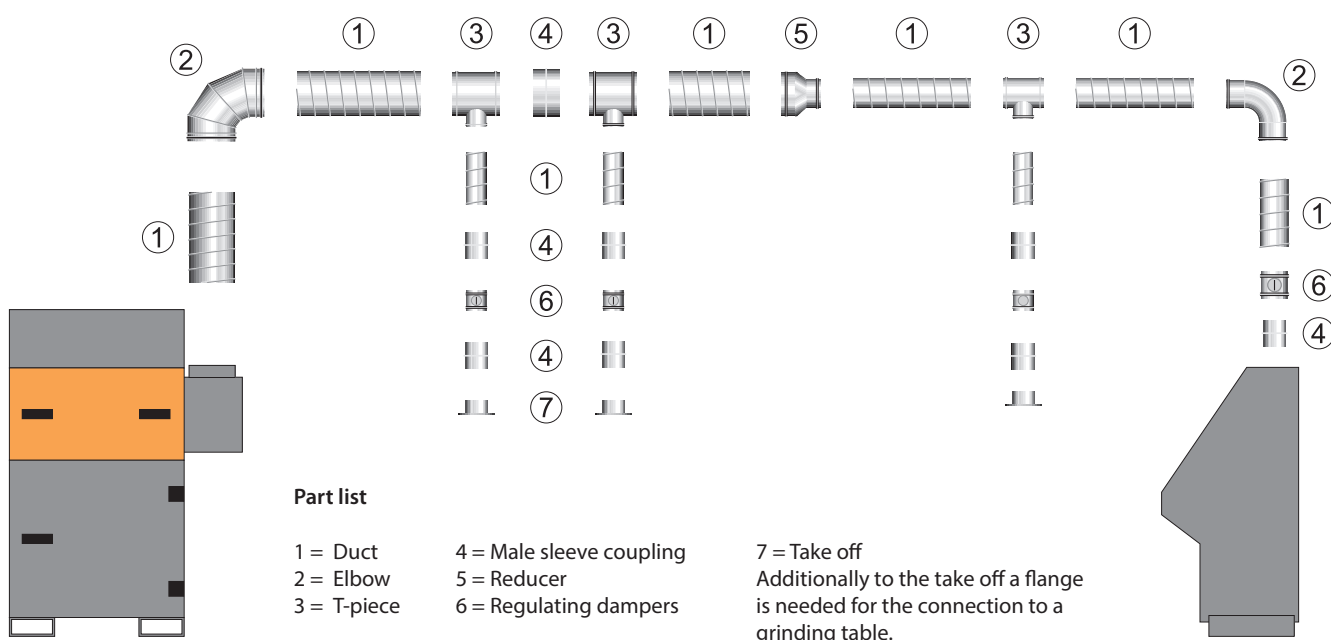
» Ducting systems



The KLS ducting system

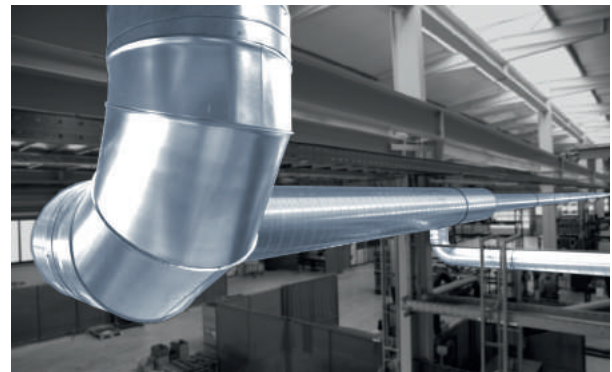
A complete range for the construction of individual ducting systems. All formed parts have a double lip sealing system of a non-ageing EPDM-elastics. Thereby the system becomes pressure-firm corresponding to the tightness class B according to Eurovent regulations. No rework of the joints with tape or silicon is necessary.

Certainly we would like to provide with a computer calculated ducting layout. Therefore please send us a sketch with your specifications. As an example you see a ducting construction for a filter unit with three exhaust arms and one grinding table. For the required parts please refer to the list below.



The KLS-ducting system convinces by:

- » Fast and easy installation
- » No sealing work
- » Pre-installed gaskets
- » Ecological no silicon, tape or mastic
- » Withstands positive pressure up to + 3.000 Pa
- » Withstands negative pressure up to - 5.000 Pa
- » Temperature resistant from - 30 °C to + 100 °
- » Appealing design



Installation

Preparation

The materials have to be clean.
The lengthening of the ducts has to be completed right-angled, and the shortened duct end has to be fettled.

Installation of shaped pieces

- » Plug the end of the formed piece completely in up to the seam.
For an easier installation rotate the piece slightly.
- » Now the formed piece can be fixed onto the duct by means of self-tapping screws or rivets.

Please refer to the table below for screws or rivets needed for installation:

Ø mm	Min. screws Ø mm	Quantity
63 - 125	3,2	2
140 - 250	3,2	3
280 - 710	3,2	4

- » Screws and rivets have to be inserted 10 - 15 mm away from the edge of the formed piece. Otherwise the gaskets get damaged.



Contact us directly for detailed information on our ducting system!
Tel. +44 (0) 1327 872 909 or +49 (0) 2564 68 0 or mail@kemper.eu



» Regulations and Legislation



The most important things first:

- » During welding, cutting and allied processes such as thermal spraying or soldering, fumes, gases and particles are released. These emissions are classified as hazardous substances.
- » These particles can be inhaled, in most cases they may even reach the alveoli and, depending on the chemical composition, can cause severe respiratory diseases and even cancer.
- » The emissions also contain a very high number of nanoparticles that can penetrate into human cells and there they may have an as yet unresearched toxicological effect.
- » Primarily for reasons of occupational safety, but also for those of environmental protection, measures for air pollution control are required. In this case, the extraction of the emissions at the source represents the best possible protection.

The most important regulations:

Determining working conditions

- » **End-user's obligation** to take protective measures, to check them regularly and document them.
No work to be started without protection measures.

Particulate hazardous substances

- » Complete **capture at source, air recirculation** only after adequate cleaning.
- » Extraction and filter systems must include **state of the art technology** and are to be **checked at least annually** for correct functioning and effectiveness.

Sequence of protection measures to reduce exposure to hazardous substances for employees:

1. Selection of processes and filler metals low in hazardous substances- **substitution**
2. Ventilation measures - **capturing emissions**
3. Organizational and hygiene measures - **avoiding contact, inhalation**
4. Personal protection - **wearing breathing protection**

Hazard Assessment

Due to the classification of welding fumes as a hazardous substance, a risk assessment must be carried out. This is done in 5 easy steps:

1. Composition of welding fumes affected by:

- » **Base material**
- » **Coatings**
- » **Filler metal** and
- » **Process gases.**

2. Determining the health hazards of welding smoke constituents:

- » **Substances that place strain on respiratory tract and lungs** (eg: iron oxides, aluminium oxide)
- » **Toxic or toxic-irritating substances** (eg: manganese oxide, copper oxide, zinc oxide)
- » **carcinogenic substances** (eg: chromium (VI) compounds, nickel oxide)

3. Determining the hazard class depending on the procedure.

Hazard class of procedures

Procedure	Emission rate (mg/s)	Substances that place strain on respiratory tract and lungs	Toxic or toxicirritating substances	Carcinogenic substances
Submerged arc	< 1	low	low	low
Gas welding (autogenous procedure)	< 1	low	low	-
TIG	< 1	low	medium	medium
Laser welding without filler metal	1 to 2	medium	high	high
MIG/MAG (low-energy gas-shielded welding) Soldering	1 to 4	low	medium	medium to high
Electric arc, MIG (general) MAG (solid wire), fluxcored wire welding with shield gas, laser welding with filler metal	2 to 25	high	high	high
MAG (flux-cored wire); flux-cored wire welding without shield gas Autogenous flame cutting Electric arc spraying	>25	very high	very high	very high

4. Determining working conditions

- » **Spatial conditions**
- » **Head and body position in overhead position**
- » **Welding time**

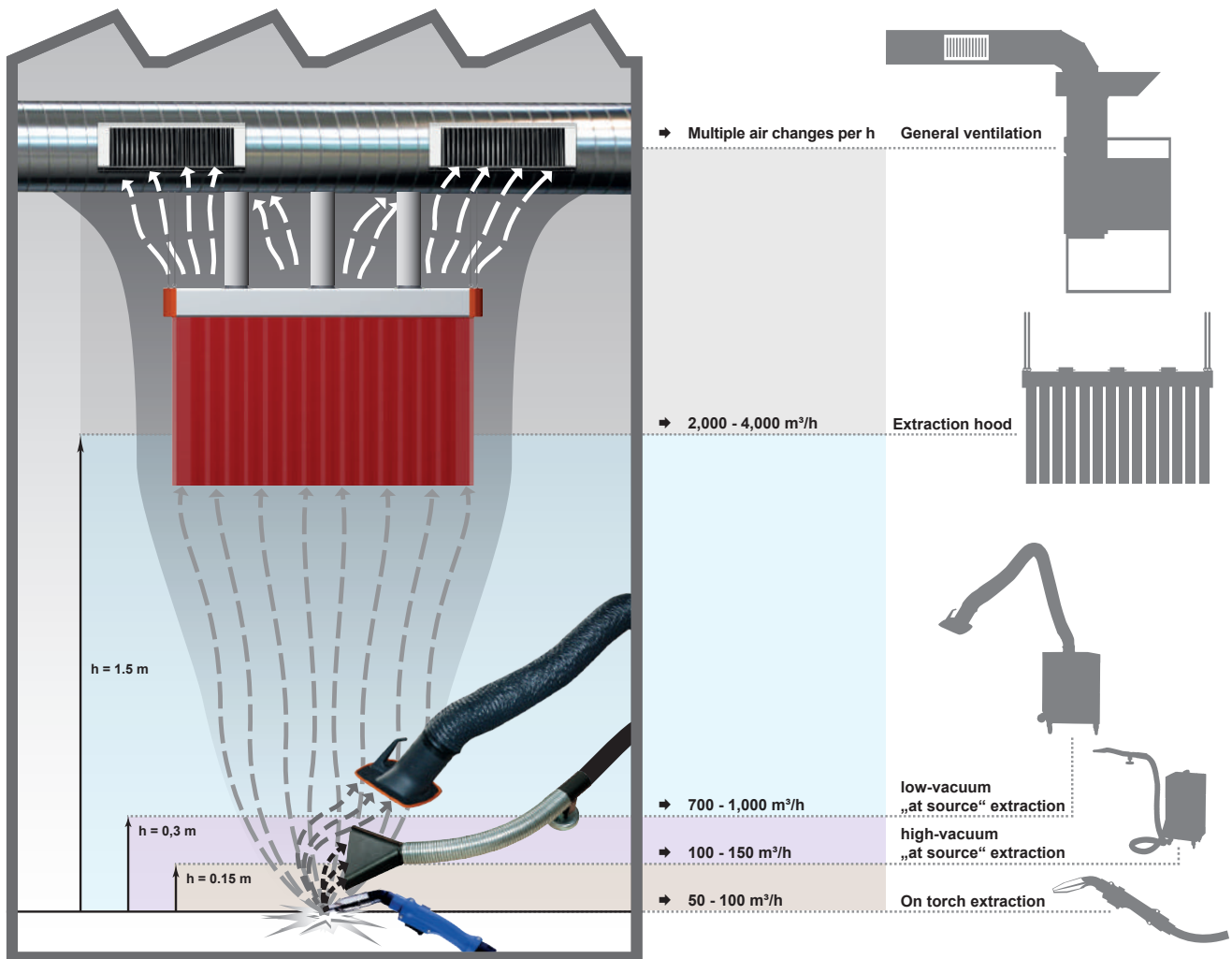
5. The overall risk assessment is based on the hazard class (step 3) and working conditions (step 4):

- » The hazard may be increased, for example, if welding time is long and/or welding is carried out in an overhead position
- » On the other hand, with short welding times, or welding work outdoors, the hazard may be reduced.



Measures

There are different possible ways of capturing harmful emissions



1. Source extraction integrated into the welding torch

- » Integration into the system
- » Extraction inevitably close to the welding point
- » Low air flow
- » Good to very good capture rate

2. High vacuum - source extraction system

- » Efficient source extraction through suction nozzles
- » Good capture rate up to a distance of 150 mm

3. Low vacuum - Source extraction system

- » Easy to use with flexible extraction arms with ease of movement
- » Freely positionable hoods
- » High capture, up to 400 mm distance

4. Exhaust hood

- » Adjustment of the exhaust hood to the respective work area
- » Capture of the entire thermal flow from the weld area
- » Very low negative pressure required

5. General ventilation systems

- » Two methods: Displacement ventilation (layered ventilation) or mixed air ventilation
- » Extraction is carried out at a height of 4-6 m
- » To complement the methods already mentioned or if other methods cannot be used

Effectiveness check

The effectiveness of the protective measures taken is to be checked, if necessary to be rectified and the result to be documented.

1. Measurement of the concentration of hazardous substances in air at the workplace

- » Welding work stations: Alveolar dust fraction relevant
- » Mixed work stations: Respirable dust fraction relevant
- » Cancer-causing compounds require separate calculation

2. Exposure data to be compared with occupational exposure limit values (local regulations)

- » If exceeded: take further or appropriate protective measures and carry out hazard assessment again

3. Document the results

General dust limit value (ASGW), Germany

- » Occupational exposure limit for dust since 2014
 - 1.25 mg/m³ Alveolar dust fraction relevant
 - 10 mg/m³ Respirable dust fraction relevant

Occupational exposure limit values

The occupational exposure limit values that apply depend on the materials used

- » Iron, aluminum, magnesium, titanium oxide
 - General dust limit value as per local regulations
- » Substances with particularly toxic properties
 - Substance-specific limit values as per local regulations
- » Carcinogenic substances such as chromium-IV compounds or nickel oxides
 - Excluded or minimum use

This means:

When the occupational exposure limits are exceeded, at least one protective measure is ALWAYS required!



» Presales and Aftersales Service



Planning and assembly

- » Optimal planning to meet high customer demands and legal requirements
- » Analysis of the task by KEMPER Project and Planning Department
- » Development of a tailor-made solution based on the extraction and filter systems
- » Assembly of extraction and filter system by KEMPER engineers
- » Commissioning of the system by qualified and experienced staff



The KEMPER offer for servicing

- » Extraction and filter systems are safety-relevant devices
- » Regular maintenance and inspection of equipment is obligatory
- » KEMPER control systems help to comply with the maintenance schedule
- » Maintenance of extraction and filter systems, as well as all components, by the trained and experienced Kemper service team
- » Regular inspection of the system provides legal and operational safety



Servicing contracts

- » KEMPER servicing contracts for the long-term safe, optimum operation of extraction and filter systems and related components
- » Inspection and maintenance of the system according to legal requirements
- » Functional and visual inspection including any adjustments required

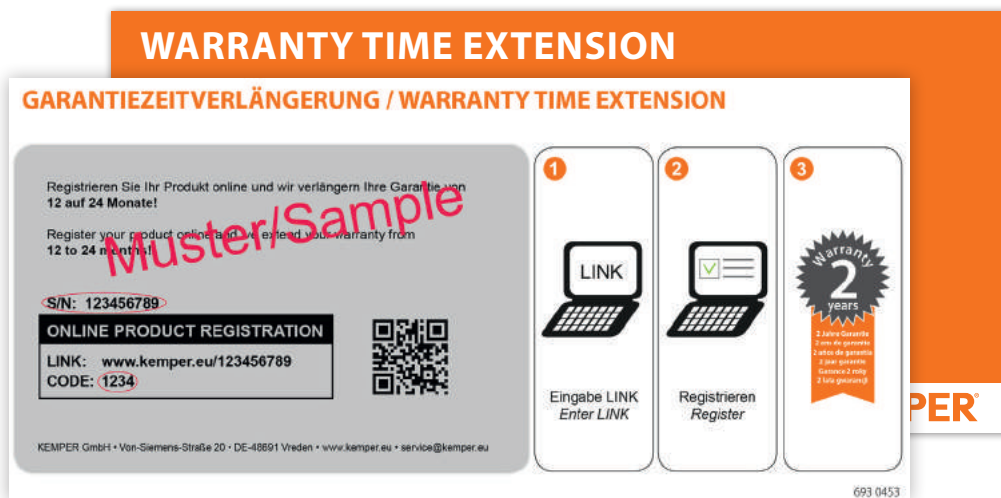
Warranty time extension

for mobile and stationary devices from 12 to 24 months

Would you like to benefit from our extended warranty service?

Then simply register your new filter unit online. As a thank you we extend your warranty from 12 to 24 months - free of charge. We offer this service for most of our mobile and stationary series devices.

A registration card is included in the scope of delivery of your new extraction unit:



Proceed as follows to register your product:



➤ Call up the link printed on the card.

➤ Log in and register your product.

➤ Finished You will automatically receive a confirmation with warranty certificate.



Contact

How to reach us!



Telephone

Our customer service is daily at your disposal.
From Monday to Thursday from 8.00 to 17.00 and
on Friday from 7.00 to 15.00.

+49 (0) 25 64 68 0

+44 (0) 13 27 87 29 09



E-Mail

Orders by email can be sent to the following
address at any time:

mail@kemper.co.uk

mail@kemper.eu



Internet

Our website, product information and current
announcements from KEMPER are available 24/7

www.kemper.eu

Blog: www.safe-welding.com



Social Media

Follow us through on our social media channels and
don't miss any news.
For example:

www.facebook.com/kemper.eu

www.instagram.com/kemper_eu



we clean air.

Conditions of Sale

Interpretation

In these terms and conditions the following expressions will have the following meanings and cognate expressions will be construed accordingly:

"Seller"	<i>KEMPER (U.K.) Limited</i>
"Buyer"	the person(s) or entity who place an Order.
"Goods"	the items or articles the subject of the Order.
"Conditions"	the terms and conditions set out here which govern the sale and purchase of the Goods.
"Order"	the order placed by the Buyer with the Seller for the supply of the Goods.
"Contract"	the contract of sale concluded by the placing of an Order which is accepted by the Seller in its confirmation of Order.

Scope of Contract

Neither the Buyer nor the Seller will be bound by any variation, waiver of or addition to the Conditions except as agreed by both parties in writing.

Any terms and conditions used by the Buyer in the course of its business do not apply to the Contract.

No statement or representation made at any time prior to the Contract will be a term of the Contract or deemed to be an inducement or collateral contract pursuant to which the Buyer entered into the Contract.

Delivery

Delivery of the Goods will be made at the Seller's earliest convenience. Any time or date for delivery is an estimate only and may be cancelled or revised at the Seller's option. Time for delivery by the Seller is not of the essence of the Contract

Each delivery operates as a separate contract.

The Buyer will accept delivery of the Goods provided such delivery is made at the Buyer's place of business within usual business hours or at any place agreed between the Seller and Buyer.

The Seller will not be liable to the Buyer for any loss or damage suffered directly or indirectly by the Buyer from any delays in delivery however arising.

The Seller will have no liability to the Buyer in the event of non-delivery of the whole or any portion of the Goods caused directly or indirectly by Act of God, elements, war, act of Government, strikes or lockouts, fire, flood, breakdown of machinery, non-delivery or delay in delivery by the Seller's suppliers of the Goods or materials required for the Goods, failure of the Seller's contractors to execute or their delay in executing any work on the Goods or any other cause (whether or not the same as the foregoing) beyond the Seller's control.

If delivery is delayed due to any of the causes referred to in clause 3.5 by a period in excess of three months the Seller may cancel the undelivered portion of the Contract by written notice.

Delivery of the Goods will be ex-works; if requested by the Buyer, the Seller will arrange delivery and insurance of the Goods in transit at the Buyer's expense.

Payment and Price

The price stated in the Seller's quotation does not include delivery to the Buyer's premises. Such price excludes any tax, licence fee, custom, import or export duty or charge.

The Seller's prices are valid for three months from the date of the Seller confirming the Order. After such period, the Seller may alter its prices and quotations for the Goods whenever it in its absolute discretion considers necessary so that the Contract price is that in force at delivery. The Seller will give the Buyer seven days written notice or such alteration. If the Buyer objects to the alteration, the Buyer will be treated as discharged from the Contract.

Payment of the price of the Goods will be made net in Pounds Sterling within 30 days of the date the Buyer receives the Seller's invoice; such invoice being deemed to have been received on the third day after posting. Payment must be made by cheque to the Seller at its offices at Venture Court, Debdale Road, Wellingborough or directly to its bank account number 15357228 at National Westminster Bank plc at 44 High Street, Daventry, Northants, NN11 4FZ, sort code 52-30-21. Payment must be made in full, without set-off or deductions. Time for payment is of the essence of the Contract.

The Seller will not be deemed to have received payment until the Buyer's cheque has been honoured on presentation for payment.

The Seller is entitled to interest on any unpaid invoices from the invoice due date until payment at the rate of 4 percentage points per annum above National Westminster Bank plc base rate prevailing from time to time.

In the event of late payment:

- 4.6.1 the Seller may treat the Contract as wrongfully repudiated by the Buyer without prejudice to the Seller's right to payment for any Goods delivered and to damages for the Buyer's breach of contract;
- 4.6.2 all the Seller's invoices will become due for immediate payment.

The Seller may treat the oldest invoices as paid first, unless the Seller indicates otherwise.

Inspection

The Buyer will inspect the Goods immediately they are delivered and the signature of the Buyer or of any person acting on its behalf on the delivery note will be deemed to be an acknowledgement by the Buyer that the Goods are of satisfactory quality, undamaged and in accordance with the Contract and the Seller will not replace the Goods nor be under any liability to deliver any missing part, unless the Buyer:

- 5.1.1 states on the delivery note that the Goods or part of them are either damaged or missing; and
- 5.1.2 notifies the Seller in writing within five days of the delivery of the Goods of the extent to which the Goods are damaged and/or missing or in the case of latent or hidden defects which could not reasonably be revealed by the delivery inspection, such notification must be made within 6 months of the date risk in the Goods passed to the Buyer.

Risk

The risk in the Goods passes to the Buyer upon despatch of the Goods by the Seller for delivery to the Buyer in accordance with these Conditions.

Title

The Seller will retain title to and ownership to the Goods until the Buyer has paid in full the price of the Goods.

Furthermore, the title in the Goods will not pass to the Buyer unless and until the full price of any other delivered Goods the subject of any other business transaction between the Buyer and the Seller has been paid. Such price and the price of the Goods will in clause 7 together be called "the value" and will where the context so permits include in addition any costs of repossession incurred under clause 7.4.1.

Until the value has been received by the Seller the Buyer will hold the Goods as bailee on behalf of the Seller and the Buyer acknowledges that there is a fiduciary relationship in respect of the Goods between the Buyer and Seller. Accordingly:

- 7.3.1 the Buyer will store the Goods on its premises separately from its own goods or those of any other person in such a way that they can be readily identified as the Goods of the Seller;
- 7.3.2 until full payment is made the Buyer will take all necessary measures for the protection of the Goods including their insurance against all usual risks with an insurance company approved by the Seller for the full replacement value of the Goods. The Buyer will procure that the interest of the Seller is noted upon any such insurance policy and that a copy of the policy is supplied to the Seller on its creation;
- 7.3.3 the Buyer is authorised by the Seller to agree to sell on the Goods at a price which is no less than the purchase price of the Goods under the Contract subject to the express condition that the entire proceeds of sale are held in trust for the Seller and are not mingled with other monies or paid into any overdrawn bank account and are at all times identifiable as the Seller's money. The Buyer will keep records (to be produced to the Seller whenever required) of the name and address of any such sub-buyer and the date and contract price of each delivery and will if the Seller so requires in writing assign such claims as the Buyer has against such subbuyers as arise from this transaction.

If the Buyer (a) fails to make any payment to the Seller when due, or (b) being an individual, proposes to compound with its creditors, applies for an interim order under section 252 Insolvency Act 1986 or has a bankruptcy petition presented against it or being a company, enters into voluntary or compulsory liquidation, has a receiver, an administrator or administrative receiver appointed over all or any of its assets or takes or suffers similar action, or if the Seller has reasonable cause to believe that any of these events is likely to occur then the Seller will have the right, without prejudice to any other remedies:

- 7.4.1 to enter, without prior notice, any premises of the Buyer where Goods owned by the Seller may be and to repossess and dispose of any Goods owned by it so as to discharge any sums owed to it by the Buyer under this or any other contract;
- 7.4.2 to require the Buyer not to resell or part with possession of any Goods owned by the Seller until the Buyer has paid in full all sums due to the Seller under this or any other contract;
- 7.4.3 to withhold delivery of any undelivered Goods and stop any Goods in transit;
- 7.4.4 to vary by notice in writing with immediate effect the terms, if any, as to credit specified in the Contract between the Seller and Buyer in such manner as the Seller may, in its absolute discretion, determine

Each of the preceding clauses will be construed and take effect separately and in the event of one or more such clauses being held ineffective this will not affect the validity of the remaining clauses.

Warranties

The Seller warrants that it has title to the Goods or will have such title at the time when property in the Goods is to pass to the Buyer under the Contract and warrants that in all other respects it is able to satisfy its obligations to the Buyer under Section 12 of the Sale of Goods Act 1979.

Except as expressly stated in these Conditions all warranties and conditions whether express or implied by statute usage trade custom or otherwise relating to the quality or nature of the Goods or their life or wear or fitness for any particular purpose or use under any specific conditions are expressly excluded.

Measurements, dimensions, weights, colours and other details contained in the Seller's catalogues, sale manuals, photographs, drawings, illustrations and price lists and the Seller's samples constitute only an approximate guide and do not form part of the Contract. No warranty is given that the Goods will correspond exactly with those specified.

Liability

Any Goods alleged by the Buyer to be damaged or not of satisfactory quality will not form the subject of any claim for work done by the Buyer or for any loss damage or expense whatsoever arising directly or indirectly from such alleged defects. If the Goods are returned to the Seller in accordance with the Conditions and are accepted by the Seller as damaged or not of satisfactory quality they will either be replaced as originally ordered or at the sole discretion of the Seller an appropriate credit note will be issued to the Buyer provided that the Buyer has otherwise complied with the Conditions.

- 9.2.1 No claim under clause 9.1 will be considered by the Seller unless, in addition to the Buyer's compliance with clause 5 (Inspection), the Buyer makes the Goods available for collection by the Seller.
- 9.2.2 No Goods will be accepted for return without the prior agreement of the Seller and returned Goods must be properly and securely packed by the Buyer and accompanied by a detailed list giving the reasons for their return and the date and number of the Seller's invoice for the Goods.

Except in respect of personal injury or death, the limit of the Seller's liability under the Conditions will not exceed the price of undelivered Goods or Goods accepted back by the Seller under the terms of the Conditions and the Seller will under no circumstances be liable in contract or tort or otherwise for any indirect or consequential damage, loss or expense however caused whether to the Buyer or any other person or thing, whether arising directly or indirectly from the negligence of the Seller or anyone for whom the Seller is vicariously liable.

General

The Seller will not be affected by any delay or failure in exercising or any partial exercising of its rights under the Contract unless it has signed an express written waiver or release.

The Buyer will not assign its rights under the Contract without the prior written consent of the Seller

Any notice given under the Conditions will be duly served on the Buyer if it is left at or sent by first class post to its address last known to the Seller or on the Seller if it is left at or sent by first class post to its address last known to the Buyer. It will be assumed that any notice sent by post will be delivered on the fifth working day after posting.

This Contract will be construed in accordance with the laws of England and the Seller and Buyer submit to the non-exclusive jurisdiction of the English courts.

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PlasmaFil Compact	104		
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ProfiMaster, two exhaust arms	10		
Push-Pull-System	88		