

**KEMPER®**



**Product catalogue 2009**



**welding, cutting and more...**



### **High-vacuum extraction**

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## KEMPER Dusty



Ultra light, flexible and powerful.

These are only some properties of this small power pack. Two strong turbines provide an excellent extraction efficiency and high static pressing. The minimum weight makes it very flexible and universal for many different applications.

A KemTex® ePTFE membrane filter cartridge provides the filtration of superfine dust below 0.1 µm. Thereby this unit is suitable for the separation of alveole exchangeable dusts. The advantage of surface filtration is that the filter cartridge can be cleaned.

In case of the Dusty, this happens manually in that minute when an essential cleaning will be indicated by the instrument itself. The collected dust can be removed easily from the lower part of the unit.

Different nozzles, welding torches with integrated extraction or mini exhaust arms of the extensive accessory programme can be connected to the two lugs of this extraction and filter unit. The extraction performance can be controlled steplessly and electronically.

For further accessories see pages 30/31.

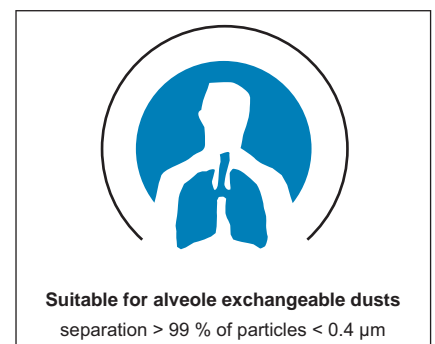
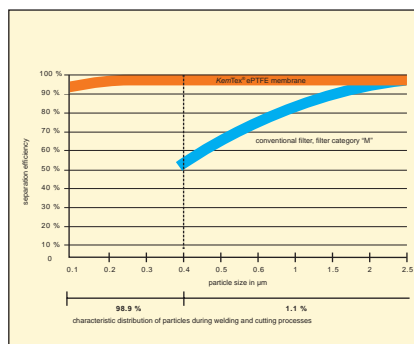
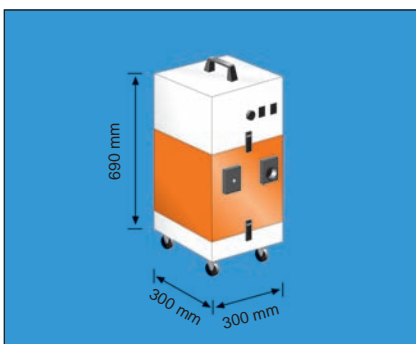
Part No.	Description	£
63 100	KEMPER Dusty 1.6 kW · 1 x 230 V / 50 Hz	1,197.00

### Spare filter

Part No.	Description	£
10 902 44	Spare filter for KEMPER Dusty	309.70

### Technical data

Voltage:	1 x 230 V / 50 Hz
Extraction performance:	340 m³/h
Motor power:	1.6 kW
Noise level:	74 dB (A)
Filter efficiency:	> 99.9 %
Weight:	21 kg
Dimensions (w x d x h):	300 x 300 x 690 mm



## Mini-Weldmaster

This easy to transport high vacuum extraction and filter unit is ideal for the extraction of welding fumes at frequently changing work places.

Extraction hoses with a diameter of 45 mm guarantee application at locations difficult to access.

Various extraction nozzles with a magnetic foot are available. It is also possible to connect one or two welding torches with integrated extraction.

The Mini-Weldmaster is equipped with a two stage filter and has a filter efficiency of 99.9 %. It is also possible to retrofit the unit with an activated charcoal filter. Cleaning of the filter inserts is not necessary.

Depending on the actual operating time and the substances to be captured the filter has to be changed once or twice a year. A filter monitor indicates a necessary filter change.

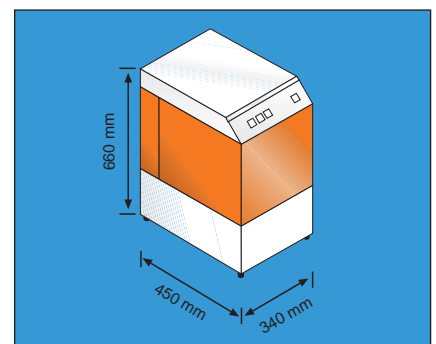
For more convenient handling a trolley with castor wheels and an automatic start-stop is available.

For further accessories see pages 30/31.



### Technical data

Voltage:	1 x 230 V / 50 Hz	3 x 400 V / 50 Hz
Extraction performance:	340 m <sup>3</sup> /h	270 m <sup>3</sup> /h
Motor power:	1.6 kW	1.1 kW
Noise level:	71 dB (A)	71 dB (A)
Filter efficiency:	> 99,9 % according to BGIA classification M	
Weight:	24 kg	28 kg
Dimensions (w x d x h):	340 x 450 x 660 mm	340 x 450 x 660 mm



### Units

Part No.	Description	£
91 730	Mini-Weldmaster 1.6 kW · 1 x 230 V / 50 Hz	1,330.00
91 730 100	Mini-Weldmaster 1.1 kW · 3 x 400 V / 50 Hz	2,659.00
91 731	Mini-Weldmaster with activated charcoal 1.6 kW · 1 x 230 V / 50 Hz	1,563.00
91 731 100	Mini-Weldmaster with activated charcoal 1.1 kW · 3 x 400 V / 50 Hz	2,893.00

### Spare filters

Part No.	Description	£
10 900 34	Pre-filter mats, (10 per set)	37.30
10 900 09	Main filter	116.40
10 900 08	Activated charcoal filter	233.60

## High-vacuum cartridge filter unit, mobile



With its four air intakes this mobile extraction and filter unit offers a flexible unit for the extraction of polluted air directly at source.

It can be used on multiple operations in the metal working industry.

The unit can be connected to exhaust nozzles, mini exhaust arms or shields with integrated extraction. The use of torches with integrated extraction makes it even more flexible.

The robust extraction unit is supplied with two *KemTex*<sup>®</sup> ePTFE membrane filter cartridges, which are monitored by the electrical control and – according to the saturation rate – cleaned automatically during operation.

The extraction capacity can be controlled by a stepless adjustable speed control.

For further accessories see pages 30/31.

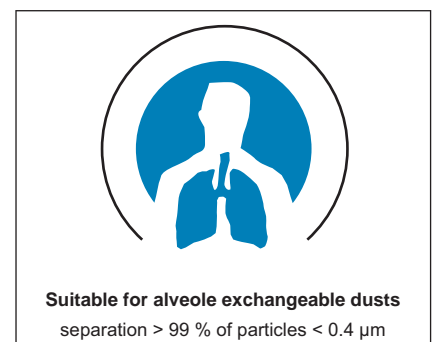
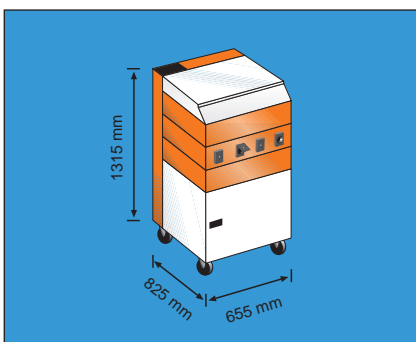
Part No.	Description	€
82 600	High-vacuum cartridge filter unit, mobile 3.3 kW · 3 x 400 V / 50 Hz	6,683.00
94 102 600 02	Sensor clamp for the automatic start-stop	495.60

### Spare filter

Part No.	Description	€
10 902 44	Spare filter for high-vacuum cartridge filter unit, mobile	309.70

### Technical data

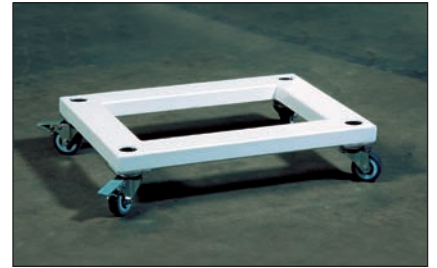
Fan performance:	max. 600 m <sup>3</sup> /h
Motor power:	3.3 kW
Amperage:	7 A
Pressure:	20,000 Pa
Voltage:	3 x 400 V / 50 Hz
Filter efficiency:	> 99,9 % (BGI classification M)
for info on filter cartridges see page 33	
Compressed air supply:	3.0 - 5.0 bar
Weight:	178 kg
Dimensions (w x d x h):	655 x 825 x 1,315 mm
Noise level:	70 dB (A)



## Accessories

### Trolley

Part No.	Description	£
91 750 200	Trolley for Mini-Weldmaster incl. 4 guide rollers, with brakes	89.80



### Extraction hose

Part No.	Description	£
93 070 004	Extraction hose Ø 45 mm, length: 2.5 m	49.90
93 070 005	Extraction hose Ø 45 mm, length: 5.0 m	98.70
93 070 006	Extraction hose Ø 45 mm, length: 10.0 m	191.10



### Slit nozzle 300 mm

Part No.	Description	£
23 200 08	Slit nozzle, 300 mm, with magnetic foot	119.50



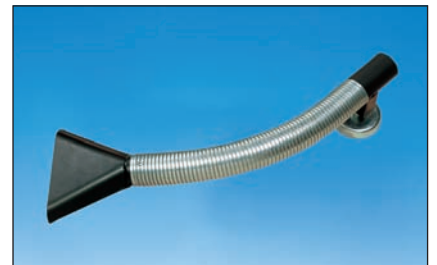
### Slit nozzle 600 mm

Part No.	Description	£
23 200 09	Slit nozzle, 600 mm, with magnetic foot	128.80



### Funnel nozzle

Part No.	Description	£
23 200 10	Funnel nozzle flexible, with magnetic foot	126.80

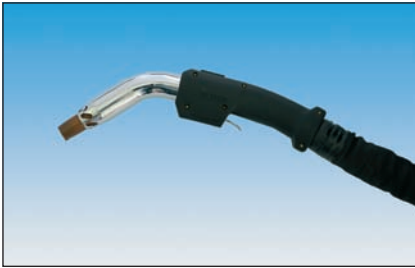


### Welding shield

Part No.	Description	£
280 010 030	Welding shield with integrated extraction	101.80



## Accessories



### Adaptor for welding torches

For connection with a hose, Ø 45 mm.

Part No.	Description	€
10 600 71	Adaptor for welding torches with integrated extraction 42 - 44 mm	7.30
10 601 04	Adaptor for welding torches with integrated extraction 39 - 42 mm	7.30
10 600 84	Adaptor for welding torches with integrated extraction 30 - 38 mm	7.30



### Mini-Exhaust arm

Part No.	Description	€
91 350	Exhaust arm, Ø 50 mm, length: 740 mm, without exhaust nozzle, swivelling to all directions, tubes made of aluminium, joints made of molded plastic incl. standard fixing device. <i>Other exhaust arm diameters on request.</i>	220.20



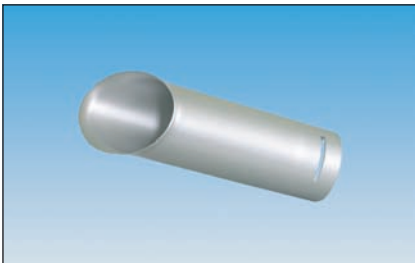
### Mounting brackets

Part No.	Description	€
93 008 001	Table mounting bracket incl. two screw clamps	44.50
93 008 002	Wall mounting bracket incl. screws and rawplugs	32.50



### Nozzles

Part No.	Description	€
232 0002	Slit nozzle, width 200 mm	54.90
232 0004	Tube nozzle, Ø 50 mm	19.10
232 0005	Plexiglass nozzle, 245 x 220 mm	68.40
232 0006	Funnel nozzle, round, extraction hole Ø 210 mm	64.20



## High-vacuum extraction and filter unit



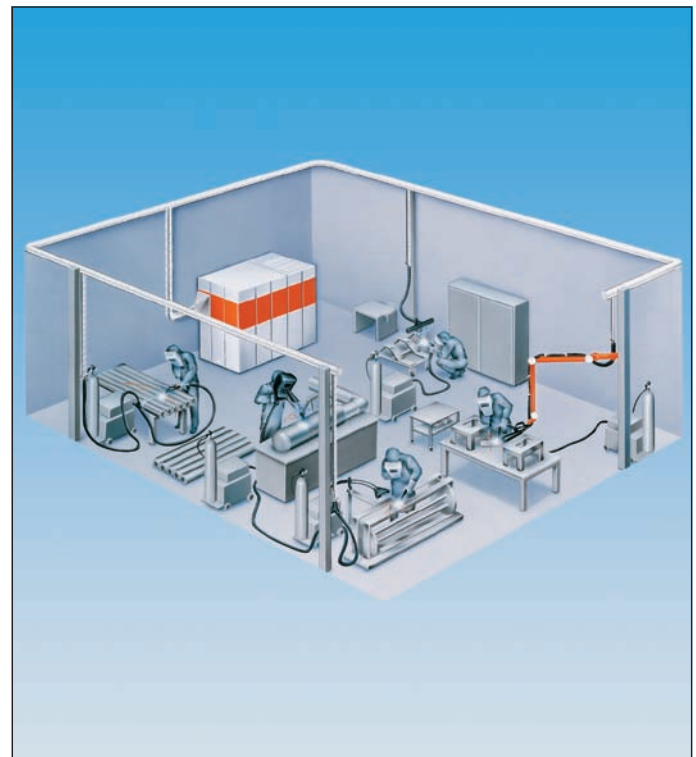
High-vacuum extraction and filter units of the system 9000 are very suitable for the connection of several extraction elements and for the construction of central extraction systems for welding workshops, grinding shops or the like.

The extracted harmful substances will be separated at the surface of the *KemTex*<sup>®</sup> ePTFE membrane filter. The control, based on a Siemens Simatec S7, monitors the collected dust on the surface of the cartridges. On reaching a certain limit it automatically activates the cleaning process during operation of the unit.

The robust filter unit, constructed of reinforced steel panels, consists of two parts being connected on site.

The following table gives an overview of the standard units. Units with higher outputs are available.

For further information on extraction and filtration units system 9000 see pages 70 to 82.



### Technical data

Part No.:	91 0100 200	91 0200 200	91 0300 200
Filter cartridges:		<i>KemTex</i> <sup>®</sup> ePTFE-membrane filter for surface filtration	
Filter efficiency:		> 99.99 % according to BGIA classification L, M	
Filter efficiency:		For alveole exchangeable dusts see page 33	
Extraction performance:	3,300 m <sup>3</sup> /h	4,000 m <sup>3</sup> /h	4,500 m <sup>3</sup> /h
Pressure:	18,000 Pa	18,000 Pa	20,000 Pa
Motor power:	22.0 kW	30.0 kW	37.0 kW
Voltage:	3 x 400 V / 50 Hz	3 x 400 V / 50 Hz	3 x 400 V / 50 Hz
Compressed air supply:	5.0 to 6.0 bar	5.0 to 6.0 bar	5.0 to 6.0 bar
Weight:	1,050 kg	1,150 kg	1,350 kg
Dimensions (w x d x h):	2,375 x 1,413 x 2,015 mm	2,826 x 1,413 x 2,015 mm	3,277 x 1,413 x 2,015 mm



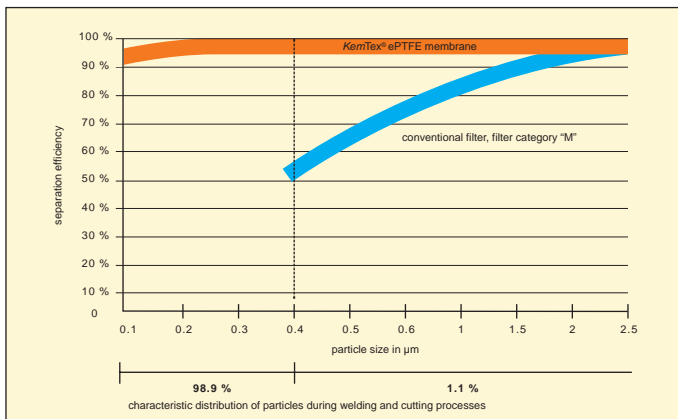
## KemTex® ePTFE membrane filter

Due to the *KemTex*® ePTFE membrane filter the *KEMPER* extraction and filtration systems act as reference for all extraction units.

*KEMPER* extraction and filtration systems are yet efficient where other filtration units are no longer able to filter even the smallest particles. Especially the range of particle sizes smaller than 0.4 µm is very important for the filtration of dusts generated during welding and cutting processes. Because the particles below 0.4 µm are alveole exchangeable.

Pulmonary alveoli are the smallest units in the human lung where oxygen is exchanged between the inhaled air and the human blood. Particles reaching the pulmonary alveoli can also diffuse into the bloodstream, form deposits all over the body and, depending on the chemical structure of the particles, can cause cancer.

It is absolutely essential for extraction and filtration systems to filter even those finest particles since it is the only possibility to protect your employees and yourself against serious diseases.



The BGIA (German government safety organisation) tests on the particle size distribution of welding smoke has shown the following results (E308-16).

Particles Ø in µm	<0.2	<0.4	<0.6	<0.8	<1.0	>1.0
Quantity	800	251	9	0	1	2
% of the quantity	75.3	23.6	0.9	0	0.1	0.2
% of the mass	15.9	38.7	7.5	0	8.2	29.7

The *KemTex*® ePTFE membrane filters can filter particles smaller than 0.4 µm, which represent 98.9 % of the total dust particles, according to BGIA tests.

The effective pore size of the *KemTex*® ePTFE membrane filter is that small, that even particles with 0.1 µm already will be filtered up to 92 %. The equal zero-emission of the *KemTex*® ePTFE membrane surpasses all current regulations even for superfine particles. Especially with superfine dusts the *KemTex*® ePTFE membrane filters prevent a penetration of the particles.

*KemTex*® ePTFE membrane filters are therefore the ultimate technology concerning all applications. They are yet efficient where conventional filters of the filter class "M" reach their limit. About 90 % less particles reach the air in comparison with conventional filters. Trust in the experience of *KEMPER* and keep your air clean with *KemTex*® ePTFE membrane filters!



**Please pay special attention to the blue symbol for alveole exchangeable dusts. You can be assured, that all filters showing this symbol separate even the finest dust particles.**

*Your distributor:*

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