



## Fume Extraction System FES-200



### Take a deep breath ...

During welding potentially harmful pollutants are created. The portable compact high vacuum extraction unit FES-200 captures welding fumes at source, thus protecting both the welder and the environment from harmful particles.

The unit comes complete as standard with an auto start-stop function, "operates" only when welding is being done. This minimises unnecessary noises, reduces energy consumption and increases the service life of the motor by up to 5 times.

The unit includes a well-designed and effective self-cleaning function through the application of the integrated manual-rotating nozzle. The compressed air nozzle provides a uniform air-stream that cleans all filter segments.

Cleaning is performed whilst in-situ, and is efficient, safe and quickly completed saving both time and money.

### The advantages:

- Solid compact construction, low in weight – ideally suited for mobile applications
- Automatic start-stop – minimises noise, reduces energy consumption and increases the service life of the motor by up to 5 times
- Efficient integrated manual cleaning – increases filter service life
- Fully equipped with suction hose and adapter – just connect the torch and go



# Fume Extraction System FES-200

## Fume Extraction System FES-200 cpl.

### Technical data:

Weight:	16 kg
Dimensions (LxWxH):	390 x 210 x 500 mm
Max. airflow:	200 m <sup>3</sup> /h
Intake diameter:	50 mm
Max. negative pressure:	19.000 Pa
Voltage:	230 V (110 V)
Motor:	1.1 kW
Filter surface:	0.8 m <sup>2</sup>

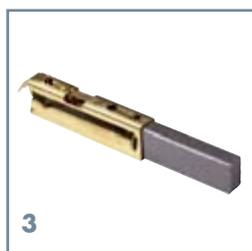


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Pos.	Description	Details	Part-No.
1	Fume Extraction System FES-200	230 V	601.0001.1
	Fume Extraction System FES-200	110 V	601.0002.1

## Wear parts



# Fume Extraction System

## FES-200

### Wear parts

Pos.	Description	Details	Part-No.
2	ON-switch		601.0003.1
3	Carbon brush 230 V Carbon brush 110 V		601.0005.1 601.0017.1
4	Vacuum pump 230 V Vacuum pump 110 V		601.0006.1 601.0018.1
5	Cleaning shaft		601.0007.1
6	Filter cartridge D = 150 x 325 mm		601.0008.1
7	Manometer with chrome cover		601.0013.1
8	Rubber connector		601.0014.1
9	Hose with sleeves		601.0015.1
10	Start/Stop probe		601.0020.1
11	Plastic bag (w./o. drawer)		601.0021.1

### Accessories

With the special **Fume-Extraction kit RAS** even standard welding torches, such as the MB GRIP series can be easily converted to "fume extraction torches" and used with the FES 200. Its easy. After the suction hose of the RAS kit is connected to the unit, it is fastened to the neck of the welding torch and the funnel section is attached to the torch tip. That's it! Since the funnel is "only" clipped on it can be easily repositioned.



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The extractor can also be equipped with just one **suction funnel** and thus be used as a mobile unit for various welding or cutting operations.

Pos.	Description	Details	Part-No.
12	Fume-Extraction kit RAS (4.00 m) for swan neck diameters of 13 mm	w./o. torch	600.D029
	Fume-Extraction kit RAS (4.00 m) for swan neck diameters of 16 mm	w./o. torch	600.D012
	Fume-Extraction kit RAS (4.00 m) for swan neck diameters of 18 mm	w./o. torch	600.D028
13	Suction funnel flexible with magnetic foot		601.0016.1

# MIG/MAG-Fume Extraction Torches "RAB Plus" air and liquid cooled

## MIG/MAG-Fume Extraction Torches RAB Plus

RAB Plus-Fume Extraction Torches are 100% compatible with the high vacuum extractor FES-200. Appropriate connections pieces are available as standard equipment of the FES-200.



### Advantages of RAB torches at a glance:

- Direct extraction at the arc – ensures permanent protection of the welder's respiratory system
- Easy installation in all existing MIG/MAG work stations
- Small extraction tube diameter – better accessibility
- Aluminium extraction tube – considerable weight saving
- Handle with extraction control and swivel joint – optimized handling
- Smaller diameter extraction hoses for all types – lower handling weight, optimum flexibility

### Technical data:

Type	Cooling	CO <sub>2</sub>	Rating Mixed Gases M21	Duty cycle (%)	Wire size (mm)
RAB Plus 15 AK	air	180 A	150 A	60	0.6-1.0
RAB Plus 24 KD	air	250 A	220 A	60	0.8-1.2
RAB Plus 25 AK	air	230 A	200 A	60	0.8-1.2
RAB Plus 36 KD	air	300 A	270 A	60	0.8-1.2
RAB Plus 240 D	liquid*	300 A	270 A	100	0.8-1.2
RAB Plus 501 D	liquid*	500 A	450 A	100	1.0-1.6
RAB Plus 501	liquid*	550 A	500 A	100	1.0-1.6

\*Note for liquid cooled torches: To protect cable assembly components from excessive heat build up we recommend a post welding cooling cycle of at least four minutes.

### "RAB Plus" in action ...



RAB Plus **without** fume extraction



RAB Plus **with** fume extraction



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