

# EVOTEC



## Mobile Fume Extraction FEX 1000 and 2000



INNOVATIVE  
EXTRACTION  
TECHNOLOGY

# Mobile fume extraction FEX 1000 and FEX 2000

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- ★ Process adaptable extraction system for the extraction of smoke, vapours or suspended dusts
- ★ Powerful EC blower suitable for continuous operation (24/7), large air volume, infinitely variable volume flow control
- ★ Modern control technology with display of device status and filter messages
- ★ Reliable filtration due to graduated combination filter system
- ★ Connection for remote on/off control

**FEX 1000**  
**FEX 2000**

Versions:



**Process adaptable extraction system for the extraction of smoke, soldering smoke, vapours or floating dusts**

High quality standards - suitable for **3-shift operation**.

Comfortable filter change by 2- or **3-cassette-system**, each individually removable.

**Reliable filtering** of suspended particles through the use of a graduated combination filter system. Activated carbon in the main filter reduces odours in the exhaust air.

For the extraction of laser smoke, welding and soldering fumes, cutting fumes as well as various vapours and solvents.

**Permanently operational EC blowers** for the extraction of large air volumes for the collection of suspended dusts.

Easy and convenient adjustment to individual requirements via **intuitive control panel**.

Clear graphic display and large, multi-coloured LEDs for **quick overview** of device status or settings.

**EX-protected according to ATEX.**



For safe extraction in Zone 22.

**W3-Version**

including expanded metal filter as spark arrester to prevent fire hazard.

**Included in delivery:**

Original Equipment Filter Set:

- Storage filter frame F9
- HEPA/ULPA filter H13/H14
- Activated Carbon filter

\*) **Operating data** including standard filter equipment in operating condition without additional options such as activated carbon filter, spark trap, pipework, etc. The operating point varies due to the power setting and pipe design (Ø, length) as well as measurement at the suction point.

Model		FEX 1000	FEX 2000
Voltage at 50/60 Hz.	Volt	230 (or 110)	
Engine power	Watt	1.100	
Air flow max. free blowing at turbine	m³/h	350	
Air flow max. in operating condition *)	m³/h	200	
Maximum usable length of hose	m	12 (Ø 50 mm)	
Negative pressure max.	Pa	10.000	
Negative pressure in operating condition approx. *)	Pa	9.000	
1st filter stage storage filter frame F9	m²	2,2	2,5
2nd filter stage HEPA filter H13/H14	m²	2,8	5,6
3rd filter stage activated carbon filling	kg	3,0	5,8
Noise level	dB(A)	62	
Weight	kg	22 (+12 Filter)	25 (+20 Filter)
Dimensions L x W x H	mm	436 x 527 x 638	436 x 527 x 882
Protection class		IP 55	
Operating temperature	°C	5 – 40	
Operating humidity (non-condensing)	%	10 – 90%	
Stainless steel quality	VA	1.4301	
<b>EX-protected</b>		<b>I.No.</b>	<b>710-1111</b>
<b>W3-Version</b> (Welding fumes)		<b>I.No.</b>	<b>710-1121</b>
		<b>I.No.</b>	<b>710-1113</b>
			<b>710-1123</b>

# FEX 1000 and FEX 2000



8-pin socket for remote ON/OFF



## FEX 1000 and FEX 2000

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### Control technology:

#### **Intuitive operation via keypad:**

Device parameters individually adaptable

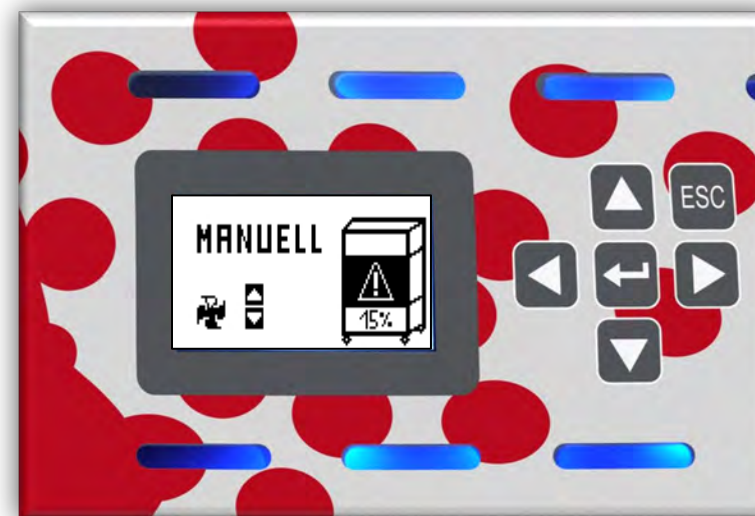
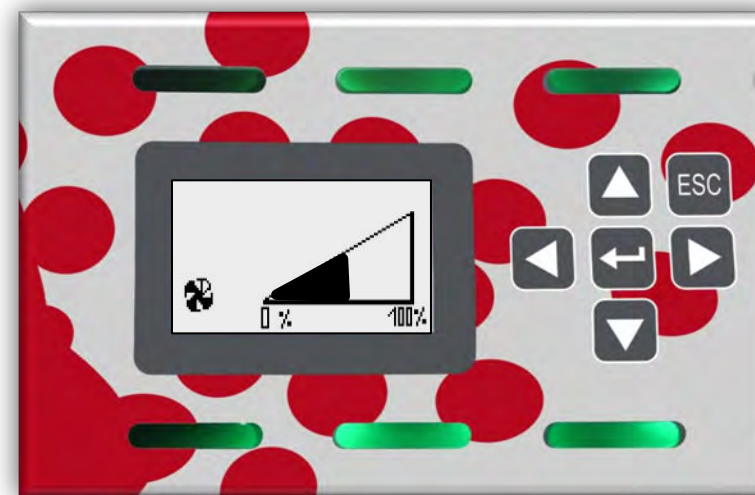
Extraction power infinitely variable during operation

Display of device status and warnings in easy-to-understand, intuitive pictograms :

- Filter status
- Malfunctions and warnings can be recognised at a glance by LED colour change

#### **Connection for ON/OFF remote control**

Connection to external controllers or devices: 8-pin socket for the possibility of remote on/off switching. The operating status and signals of fault messages can be transmitted potential-free or with 24 V. The matching mating connector is available as an accessory



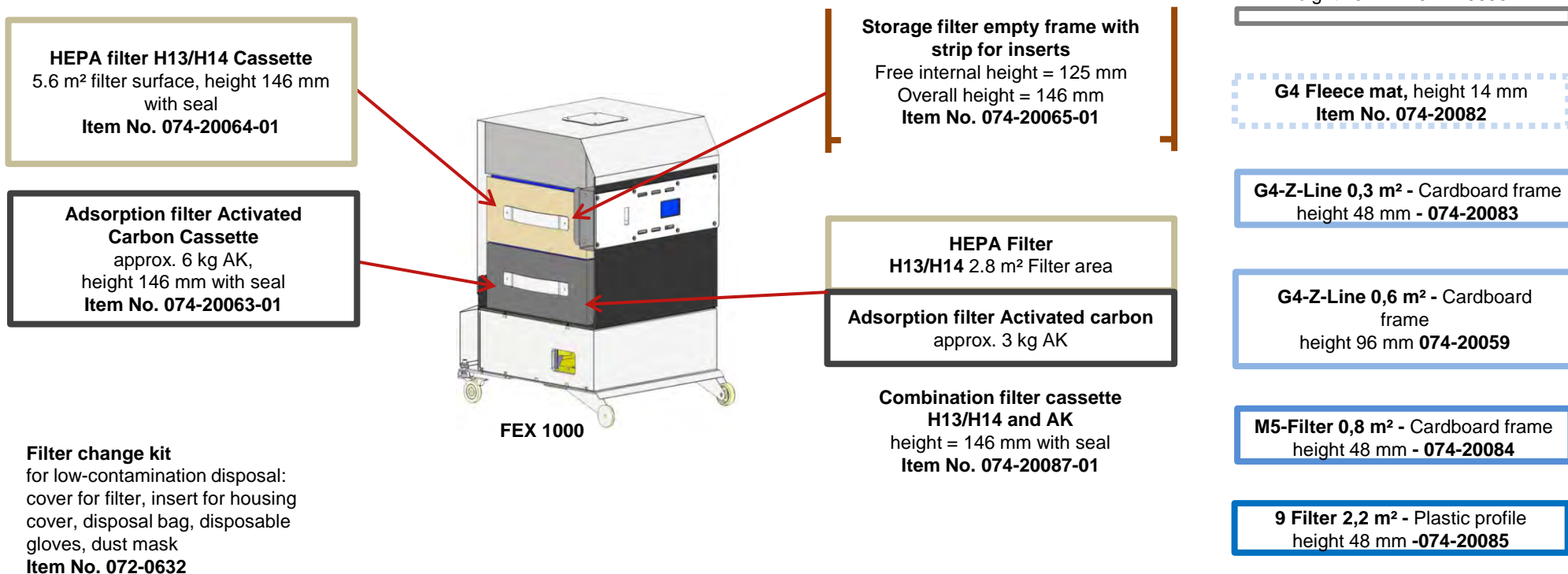
## Replacement filters for FEX 1000

HEPA filters and adsorption filters consist of a stable MDF box with seal and are completely incinerable. Due to the separate design, they can be combined to suit the application and disposed of separately depending on the load.

As a storage filter, an empty frame can be equipped with suitable filter inserts as required. The use of an expanded metal filter is required for the W3 version. (In combination with storage filter empty frame + filter insert + expanded metal filter).

### **Combination possibilities:**

All cassettes height 146 mm can be combined with each other



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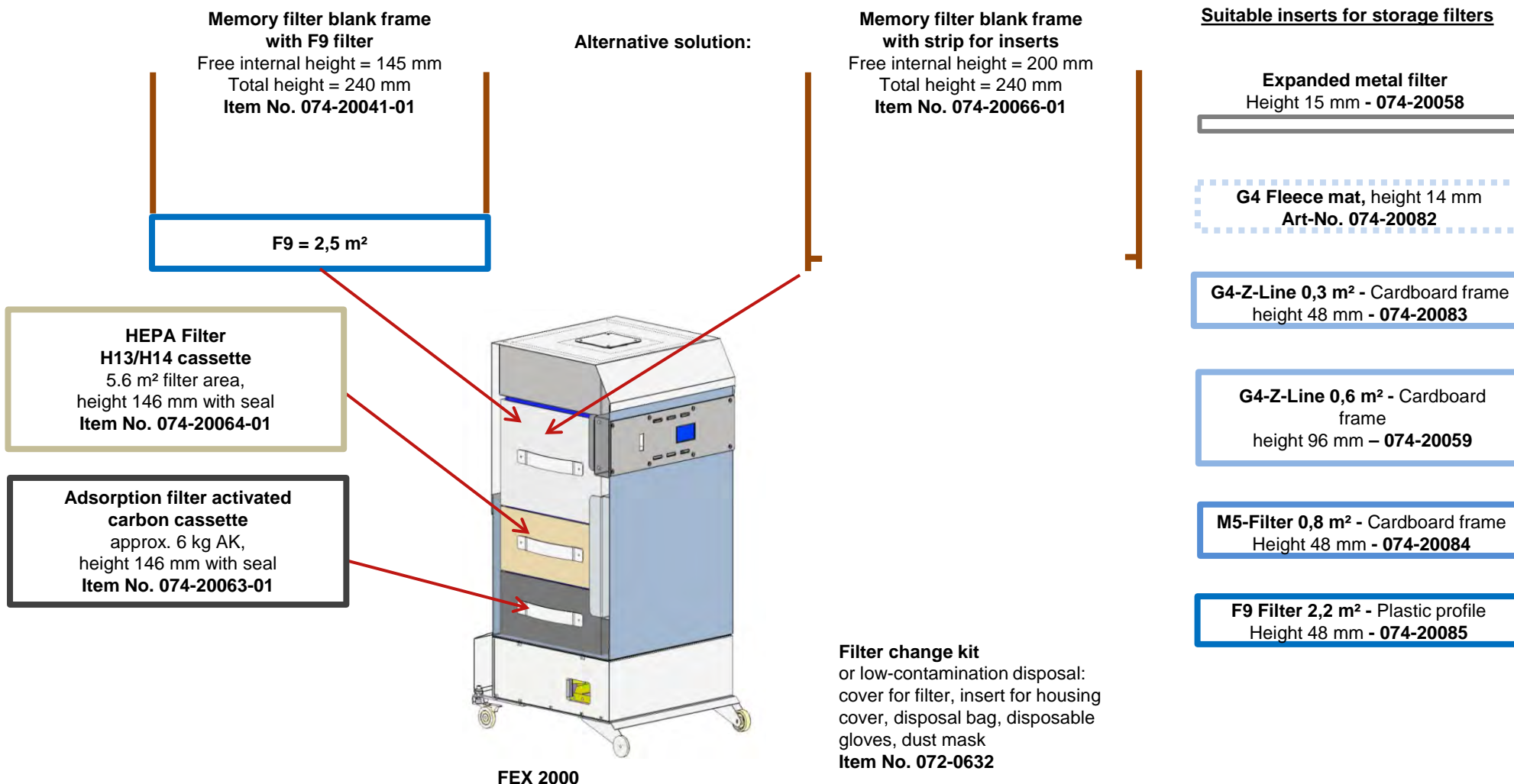


## Replacement filters for FEX 2000

HEPA filters and adsorption filters consist of a stable MDF box with seal and are completely incinerable. Due to the separate design, they can be combined to suit the application and disposed of separately depending on the load.

There is a choice of various storage filter variants: ready-made F9/M5 combi filter cassette or various empty frames, which can be equipped with suitable filter inserts according to requirements.

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## Options and accessories FEX 1000/2000

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Vacuum hose and connections FEX 1000/2000	
	<p><b>Vacuum hose PUR black antistatic</b> Contact and surface resistance &lt; 10<sup>9</sup> Ohm linear meter</p> <p>Ø 50 mm <b>072-10007</b></p> <p><b>End sleeve electrically conductive</b> for PUR-hose, 1 piece</p> <p>Ø 50 mm <b>072-10025</b></p> <p></p>
	<p><b>Vacuum hose PP for W3-design</b> linear meter (not suitable for EX)</p> <p>Ø 50 mm <b>072-10003</b></p> <p><b>Fitting</b> for PP-hose, 1 piece</p> <p>Ø 50 mm <b>072-10001</b></p>
	<p><b>Closing plug</b> For closing of vacuum openings not needed</p> <p>Ø 50 mm <b>072-0609</b></p>

Vacuum hose & exhaust hoses FEX 1000/2000	
	<p><b>Adapter for connection hose</b></p> <p>For installation on top of the device, including hose clamp</p> <p>Ø 50 mm <b>072-0620</b></p> <p>Ø 80 mm <b>072-0603</b></p> <p></p>
	<p><b>Exhaust air or hose</b> <b>PUR black antistatic</b></p> <p>Can be used as exhaust air or vacuum hose, throughput and surface resistance &lt; 10<sup>9</sup> Ohm linear meter</p> <p>Ø 80 mm <b>072-10011</b></p> <p>Ø 100 mm <b>072-10035</b></p> <p></p>
	<p><b>Exhaust air hood with exhaust hose connection</b></p> <p>Exhaust air hood with connection for exhaust hose</p> <p>Ø 80 mm <b>072-0610</b></p> <p>Ø 100 mm <b>072-0637</b></p> <p></p>
	<p><b>Wire clamps single</b></p> <p>For vacuum or exhaust air hoses, galvanized steel</p> <p>Ø 50 mm <b>054-10090</b></p> <p>Ø 80 mm <b>054-10091</b></p> <p>Ø 100 mm <b>054-10092</b></p> <p></p>



## Options and accessories FEX 1000/2000

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Options FEX 1000/2000	
	<b>Spark trap with knitted metal inlay</b> prevents sparks from being sucked in. For integration in pipe system or hose Ø 50 mm <b>072-0626</b> Ø 80 mm <b>072-0628</b>
	<b>Matching metal knitted inlay for</b> Ø 50 mm <b>072-0626-01</b> Ø 80 mm <b>072-0628-01</b>
	<b>Bracket for spark trap</b> included in delivery. For variable attachment of the spark trap to beams at all angular degrees.
	<b>Expanded metal filter</b> as a spark arrester to prevent fire hazard, suitable for use in storage filters <b>Piece 074-20058</b>
	<b>Cyclone pre-separator ESD</b> for the pre-separation of larger quantities of fine dust. 28-l dirt container made of stainless steel, cyclone made of ESD plastic, connections Ø 50 mm  28 litres container <b>053-1045</b>

Options FEX 1000/2000	
	<b>Triangular socket wrench</b> for FEX3000 front door Piece <b>074-20016</b>
	<b>Stand Set</b> For increased stability of the system, e.g. for operation with vacuum arm Set <b>072-0350</b>
	<b>Power supply cable</b> with angled cold appliance plug, 5 meters  with EU Schuko plug <b>072-0343</b> open at the end <b>072-0130</b>

## Options and accessories FEX 1000/2000

### Options FEX 1000/2000



**Mating connector for 8-pin female connector**  
for connection to external controllers or devices for  
remote control, without cable  
Piece **072-0621**



**Protective coating**  
in the upper housing area, recommended for the  
extraction of acidic vapours  
**Attention:** To be ordered together with machine  
FEX 3000 **072-0619-02**  
FEX 1000 / 2000 **072-0619-01**

### Vacuum arms



Extraction arms enable **spot extraction** directly at  
the point of origin. The **self-supporting**  
**construction** with three stable joints makes it easy  
to handle and position.

**Standard version:** Aluminium with polypropylene  
joints.

**ESD version:** for ESD areas (electrostatic  
discharge, certified according to IEC 61340-5-1).  
Ideal for use in laboratories, electronics  
manufacturing, pharmaceutical industry, etc.

+ **Energy saving**  
+ **Low noise**  
+ **Low pressure drop**



**Vacuum arm for table mounting**  
Includes bracket for plate feed-through

**Figure:**  
Standard version  
Ø 50 mm - Range 1,300 mm  
Option: hood tube and flat hood



**Vacuum arm for ceiling or wall mounting**  
without bracket

**Figure:**  
ESD/ATEX version  
Ø 50 mm - Range 1,300 mm  
Option: hood tube and flat hood  
Option: small wall bracket

# Options and accessories FEX 1000/2000

## Vacuum arms

	<p><b>Standard vacuum arm for table mounting</b> Including console for panel feed-through</p> <p>Ø 50 mm Length 1.300 mm      <b>072-0400</b> Length 1.500 mm      <b>072-0401</b></p> <p>Ø 75 mm Length 1.300 mm      <b>072-0402</b> Length 1.500 mm      <b>072-0403</b></p>
	<p><b>ESD vacuum arm for table mounting</b> Including console for panel feed-through</p> <p>Ø 50 mm Length 1.300 mm      <b>072-0400-ESD</b> Length 1.500 mm      <b>072-0401-ESD</b></p> <p>Ø 75 mm Length 1.300 mm      <b>072-0402-ESD</b> Length 1.500 mm      <b>072-0403-ESD</b></p>
	<p><b>Standard vacuum arm for ceiling or wall mounting, without console</b></p> <p>Ø 50 mm Length 1.300 mm      <b>072-0404</b> Length 1.500 mm      <b>072-0405</b></p> <p>Ø 75 mm Length 1.300 mm      <b>072-0406</b> Length 1.500 mm      <b>072-0407</b></p>
	<p><b>ESD vacuum arm for ceiling or wall mounting, without console</b></p> <p>Ø 50 mm Length 1.300 mm      <b>072-0404-ESD</b> Length 1.500 mm      <b>072-0405-ESD</b></p> <p>Ø 75 mm Length 1.300 mm      <b>072-0406-ESD</b> Length 1.500 mm      <b>072-0407-ESD</b></p>

## Vacuum arms and consoles

	<p><b>Flexible ESD vacuum arm for table mounting</b> Including console for panel feed-through</p> <p>Ø 50 mm Range 600 mm      <b>072-0400-ESD</b></p>
	<p><b>Flexible table console</b> Flexible holder for mounting on table tops or shelves. Supplied complete with two screw clamps. Suitable for</p> <p>For 072-0400-ESD:      <b>072-0409-ESD</b></p> <p>Universal for Ø 50 mm and Ø 75 mm Standard      <b>072-0428</b> ESD      <b>072-428-ESD</b></p>
	<p><b>Wall console</b> Universal console for vacuum arm for wall mounting. Suitable for Ø 50 mm and Ø 75 mm</p> <p>Standard      <b>072-0427</b> ESD      <b>072-0427-ESD</b></p>
	<p><b>Ceiling console</b> The holder also functions as an exhaust air duct. Universally suitable for Ø 50 mm and Ø 75 mm</p> <p>Standard, length 250mm      <b>072-0418</b> ESD, length 250mm      <b>072-0418-ESD</b></p> <p>Standard, length 1000mm      <b>072-0421</b> ESD, length 1000mm      <b>072-0421-ESD</b></p> <p>→ Other designs/ lengths on request</p>

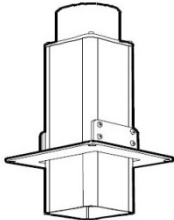



## Optionen und accessories FEX 1000/2000

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### Hoods and nozzles

	<p><b>Flat hood 300 x 200 mm</b> Especially suitable for gases and vapours. High vacuum efficiency in vertical position to the table surface, including hood tube</p> <p>Standard Ø 50 mm      <b>072-0414</b> ESD Ø 50 mm      <b>072-0414-ESD</b></p> <p>Standard Ø 75 mm      <b>072-0415</b> ESD Ø 75 mm      <b>072-0415-ESD</b></p>
	<p><b>Vacuum tip, length 300 mm</b> For smaller, concentrated sources of pollutants; cantilevered vacuum tip for increased extraction efficiency</p> <p>Standard Ø 50 mm      <b>072-0410</b> ESD Ø 50 mm      <b>072-0410-ESD</b></p> <p>Standard Ø 75 mm      <b>072-0411</b> ESD Ø 75 mm      <b>072-0411-ESD</b></p>
	<p><b>Flexible vacuum tip, length 600 mm, ESD</b> High efficiency paired with high flexibility</p> <p>ESD Ø 50 mm      <b>072-0412</b> ESD Ø 75 mm      <b>072-0413</b></p>
	<p><b>Round hood</b> Metal hood Ø 250 mm, including hood tube</p> <p>Standard Ø 50 mm      <b>072-0432</b> ESD Ø 50 mm      <b>072-0432-ESD</b></p> <p>Standard Ø 75 mm      <b>072-0433</b> ESD Ø 75 mm      <b>072-0433-ESD</b></p>

### Accessories vacuum arm

	<p><b>Telescopic ceiling console</b> length up to 1000 mm</p> <p>The holder also functions as an exhaust air duct. Universally suitable for Ø 50 mm and Ø 75 mm</p> <p>Standard      <b>072-0426</b> ESD      <b>072-0426-ESD</b></p>
	<p><b>Straight hood tube</b> Spare part for hood, also suitable as straight inlet nozzle</p> <p>Standard Ø 50 mm      <b>072-0429</b> ESD Ø 50 mm      <b>072-0429-ESD</b></p> <p>Standard Ø 75 mm      <b>072-0430</b> ESD Ø 75 mm      <b>072-0430-ESD</b></p>
	<p><b>Reduction</b> Material PP</p> <p>Standard Ø 100-50 mm      <b>072-0416</b> ESD Ø 100-50 mm      <b>072-0416-ESD</b></p> <p>Standard Ø 100-75 mm      <b>072-0417</b> ESD Ø 100-75 mm      <b>072-0417-ESD</b></p>
	<p><b>Protective guard</b> For mounting in Ø 75 mm joint</p> <p>Standard Ø 75 mm      <b>072-0431</b> ESD Ø 75 mm      <b>072-0431-ESD</b></p>

## Notes

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## Notes

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