SPÄNEX SMU compact dust extractor
... ... the new generation up to 10,000 m³/h!
Compact, powerful and quiet
Extraction systems with compact dust extractors up to 10,000 m³/h

The area of application for the dust extractors has been expanded based on the new European Standard FprEN 16770. Thus, in the future, dust extractors with volumetric flows of more than 6,000 m³/h when extracting organic dust, dust explosion class St 1 can be set up directly in the work room due to its structural design. A large group of users benefits from extraction systems based on dust extractors:

- shorter pipeline distances reduce investment and operating costs,
- complicated return air ducts are not required,
- a one-hundred percent heat recovery is achieved due to direct air return,
- the largely operationally-ready delivery results in short assembly times and thus low assembly costs.

The new generation of SPÄNEX compact dust extractors also impresses with the higher capacity, better energy efficiency, quieter operation and easier usability.

The new generation - improvements in the details

- **Higher extraction capacity**
  The SPÄNEX compact dust extractors now cover a volumetric flow range of up to 10,000 m³/h. In addition, the flow rate of the devices is optimized so the internal resistances are lower and thus higher external compressions are available. That means: The performance capacity of the SPÄNEX compact dust extractors has been expanded and significantly improved overall.

- **Lower energy consumption**
  As a standard, energy-saving ventilator motors in efficiency class IE 3 (optionally IE 4) are used. In the more powerful devices, in particular, a drive via a frequency converter for controlling the fan speed is an option worth considering with respect to saving energy costs.

- **Quiet operation**
  The noise protection has also been improved so the noise emissions were able to be reduced. Additional external silencers are not required.

- **Effective filters and cleaning technology**
  The high separation level of the filter materials used (tested by the trade association) ensures a residual dust content in the return air of < 0.1 mg/m³. The compressed air cleaning system (jet pulse system) ensures effective and gentle cleaning of the filter elements at low compressed air consumption levels, thus achieving a long service life.

- **Modern design, compact unit**
  The new form and the structural design in conjunction with the use of the tried-and-tested, special filter elements have resulted in even more compact casing dimensions so extremely small set-up areas and lower clearance heights are required.

- **Tested safety**
  All SPÄNEX compact dust extractors have been tested by the BGHM trade association and have been awarded the DGUV test certificate (H3) and the GS mark.

- **Several disposal options**
  The separated chips or dusts are collected in collection containers lined with plastic bags. The SMU 32 to SMU 100 compact dust extractor models can alternatively be equipped with a briquetting press or connected to a screw or pneumatic conveyor system with an external container.
Sample solutions from practice
### Compact, powerful and quiet
#### Overview of the data

<table>
<thead>
<tr>
<th>SMU</th>
<th>12</th>
<th>15</th>
<th>20</th>
<th>25</th>
<th>30</th>
<th>32</th>
<th>45</th>
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</thead>
<tbody>
<tr>
<td>suction nozzles Ø in mm</td>
<td>125</td>
<td>140</td>
<td>160</td>
<td>180</td>
<td>200</td>
<td>200</td>
<td>250</td>
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<tr>
<td>nominal volume flow* in m³/h</td>
<td>880</td>
<td>1.110</td>
<td>1.450</td>
<td>1.830</td>
<td>2.260</td>
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<td>3.530</td>
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<td>2.000</td>
<td>2.500</td>
<td>3.000</td>
<td>3.200</td>
<td>4.500</td>
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<tr>
<td>vacuum * in Pa</td>
<td>2.300</td>
<td>2.050</td>
<td>2.400</td>
<td>2.500</td>
<td>2.400</td>
<td>2.700</td>
<td>2.700</td>
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<tr>
<td>motor capacity in kW</td>
<td>2.2</td>
<td>2.2</td>
<td>3.0</td>
<td>3.0</td>
<td>4.0</td>
<td>4.0</td>
<td>5.5</td>
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<tr>
<td>max. noise emissions in dB (A)</td>
<td>65</td>
<td>65</td>
<td>65</td>
<td>65</td>
<td>65</td>
<td>67</td>
<td>67</td>
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<tr>
<td>collection volume in l</td>
<td>1 x 165</td>
<td>1 x 165</td>
<td>1 x 165</td>
<td>1 x 165</td>
<td>1 x 165</td>
<td>2 x 165 400***</td>
<td>2 x 165 400***</td>
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<tr>
<td>dimensions L x W x H</td>
<td>1320 x 750 x 1905</td>
<td>1320 x 750 x 1905</td>
<td>1670 x 750 x 1975</td>
<td>1860 x 750 x 1975</td>
<td>1860 x 750 x 1975</td>
<td>2420 x 900 x 1965 2360 x 900 x 2400***</td>
<td>2540 x 900 x 1965 2480 x 900 x 2400***</td>
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<tr>
<td>weight in kg</td>
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<td>345</td>
<td>385</td>
<td>390</td>
<td>400</td>
<td>770 1.385***</td>
<td>780 1.395***</td>
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</tbody>
</table>

* at 20 m/s in the suction nozzle; ** standard application at 24 - 28 m/s in the suction nozzle; *** with briquetting press

### Design configurations:
- automatic start of the fan
- automatic slide control
- operation via frequency converter
- Fill level monitoring in the containers with briquette presses or container feeding
- with chip briquetting press or externally installed container
- automated extinguishing with powder extinguisher
- ignition protection system

### Plus points:
- compact
- small set-up area
- high suction capacity
- quiet, energy-saving operation
- automatic start of the briquetting press
- complete control system
- operator friendliness
- tested in accordance with GS-HO-07
Compact, powerful and quiet
Overview of the data

<table>
<thead>
<tr>
<th>SMU</th>
<th>60</th>
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<th>85</th>
<th>100</th>
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<td>300</td>
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<td>355</td>
<td>355</td>
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<td>vacuum * in Pa</td>
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<td>3.000</td>
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<tr>
<td>motor capacity in kW</td>
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<td>11.0</td>
<td>11.0</td>
<td>15.0</td>
</tr>
<tr>
<td>max. noise emissions in dB (A)</td>
<td>69</td>
<td>70</td>
<td>70</td>
<td>72</td>
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<tr>
<td>collection volume in l</td>
<td>3 x 165 500***</td>
<td>3 x 165 500***</td>
<td>3 x 165 500***</td>
<td>3 x 165 500***</td>
</tr>
<tr>
<td>dimensions L x W x H</td>
<td>3080x900x1965 3010x900x2400***</td>
<td>3220x900x1965 3150x900x2400***</td>
<td>3570x900x1965 3500x900x2400***</td>
<td>3570x900x1965 3500x900x2400***</td>
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<tr>
<td>weight in kg</td>
<td>850</td>
<td>880</td>
<td>900</td>
<td>930</td>
</tr>
</tbody>
</table>

* at 20 m/s in the suction nozzle; ** standard application at 24 - 28 m/s in the suction nozzle; *** with briquetting press

Consultation and service

It's a long way from planning to the finished system. In all phases, SPÄNEX is at your side with the competence and experience from the realization of several thousand projects.

The systems are installed by SPÄNEX installation technicians and commissioned by our customer service technicians. Our service, upon request in conjunction with maintenance agreements, ensures the long service life and reliable operation of the systems.