Sideros Engineering

Specialists in suction tables and cartridge dust collectors for thermal cutting since 1981

HIGH EFFICIENCY CARTRIDGE DUST COLLECTORS
FOR THERMAL CUTTING INSTALLATIONS: PLASMA, OXY AND LASER CUTTING

DUST EMISSIONS
Always guaranteed < 2 mg/m³. Tests made on working installations showed that those values are even included between 0.5 and 1 mg./m³

FILTERING EFFICIENCY
Constant and guaranteed during the whole cartridge life at 99.999% on particles up to 0.5 micron.

COMPACT FEATUTE
The filtering media’s features and building technology together with the really wide filtering surface of each cartridge (21 m²) assure in standard models almost a 40% space gain, compared with conventional dust collector having the same capacity.

AUTOMATIC CLEANING
It is performed through compressed air jets acting in countercurrent, automatically activated by the efficient system called Delta P Board. A pressure gauge placed inside the filter surveys the clogging level of the cartridges sending the value to the Delta P board.

MAINTENANCE
Almost unnecessary until the cartridges’ replacement. Anyway, it is extremely simple and quick, with a great reduction in standstill times (nearly 70% less than traditional dust collectors).

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CARTRIDGES

Made of plain cellulose, « Top Grade » cartridges are treated in order to combine a structurally stable filtering substatum with a thin layer of ultrafine fibers which are able to block submicron particles on the media’s outer surface. Average cartridge lifespan: about 4,000 workhours.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Nº OF CARTRIDGES</th>
<th>WEIGHT Kg</th>
<th>CAPACITY m³/h</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 2C</td>
<td>2</td>
<td>310</td>
<td>1.800</td>
</tr>
<tr>
<td>ECO 4 HC</td>
<td>4</td>
<td>610</td>
<td>2.000÷3.000</td>
</tr>
<tr>
<td>ECO 6 HC</td>
<td>6</td>
<td>760</td>
<td>3.000÷4.500</td>
</tr>
<tr>
<td>ECO 9 CT</td>
<td>9</td>
<td>1.300</td>
<td>4.500÷6.750</td>
</tr>
<tr>
<td>ECO 12 CT</td>
<td>12</td>
<td>1.500</td>
<td>6.000÷9.000</td>
</tr>
<tr>
<td>ECO 16 CT</td>
<td>16</td>
<td>1.800</td>
<td>8.000÷11.000</td>
</tr>
<tr>
<td>ECO 24 CT</td>
<td>24</td>
<td>2.360</td>
<td>11.000÷12.000</td>
</tr>
</tbody>
</table>

“R” RANGE

Reinforced version of standard dust collectors designed for applications with explosion risk, like aluminium or light alloys cutting.

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FASTCLEAN, SCREW DUST EXTRACTOR FOR CARTRIDGE DUST COLLECTORS

FASTCLEAN is a conveyor system which allows the automatic extraction of dust from the outlet hopper of the filtration unit. The dust is conveyed, without the operator’s intervention, into a bin for its disposal, thus reducing drastically the risk of pollution for the operator while extracting the dust.

The features and flexibility of this innovative product allow furthermore to add FASTCLEAN to any existing installation, as it has its own motor and electric board, independent from the filtration unit.

**FEATURES**

- Main body in carbon steel, painted;
- Motor reducer with outlet hopper;
- Flexible hairspring with flat section;
- Flexible pipe to contain the hairspring;
- Control board;
- Linking hopper between filter and screw collector.

**COMPONENTS**

**SINGLE:**
It allows the connection of one filtration unit with the screw collector.

**DOUBLE:**
It allows the connection of the screw collector to one filtration unit with two hoppers or to two filtration units with one single hopper each.

**PROGRAMMABLE:**
The electrical board is provided with a programmable timer for the start/stop of the screw collector.

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SIDEROS ENGINEERING offers an interesting elevating structure, which allows the operator to optimize the dust extraction from the filtration unit. The structure is realized in steel, steady and generously dimensioned, and can house bins of capacities ranging from 200 to 1000 lt. (for instance containers or Big Bag). The main advantage is a less frequent extraction of the dust tanks compared to those usually placed under the standard version of SIDEROS filtration units; furthermore the pollution risk for the operator, while extracting the dust, is reduced.

Elevating structures available for the filtration units model:
- ECO 9
- ECO 12
- ECO 16
- ECO 24

- Reduced emptying time
- Drastic reduction of the pollution risk for the operator while extracting the dust.