MEGADYNE™ MEGA VAC™ Smoke Evacuator
Why remove surgical smoke from the OR?

Surgical smoke can decrease site visibility and impact air quality in the surgical suite. The MEGADYNE™ Smoke Evacuation Portfolio was designed to reduce surgical smoke for improved visibility and a cleaner OR environment.

**Electrosurgical smoke has been shown to contain many potentially harmful components including:**

- Electrosurgery plume/smoke contains toxic gas and vapors.\(^1\)
- Electrosurgery plume/smoke can contain bioaerosols, including dead and living cell material, blood fragments and viruses.\(^2\)
- Electrosurgery plume/smoke can contain mutagenic and carcinogenic compounds.\(^3\)

The Association of periOperative Registered Nurses (AORN) and National Institute for Occupational Safety and Health (NIOSH) recommend surgical smoke be removed by use of smoke evacuation in both open and laparoscopic cases.\(^4\)

The smoke condensate from burning 1 gram of tissue has been shown to be equivalent to that of up to 6 unfiltered cigarettes.\(^5\)

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2 Control of Smoke from Laser/Electric Surgical Procedures. NIOSH, DHHS (NIOSH) Publication No. 96•128 (C2417)  
3 Al Sahaf OS, et al., Chemical composition of smoke produced by high-frequency electrosurgery Ir J Med Sci. 2007 Sep;176(3):229-32 (C2509)  
4 Perioperative standards and recommended practices. Electronic release: July 2009. AORN, Inc. (C2353)  
MEGADYNE™ MEGA VAC™ Smoke Evacuator was designed for **maximum smoke evacuation** while maintaining a quiet OR¹

**Efficient**
- Automatically turns on when the pencil is activated for efficient smoke removal¹ and minimal OR noise
- Provides surgeons with variable levels of suction to suit their individual case requirements¹
- The ULPA prefilter is nearly 100% efficient in capturing particulate matter²

**Quiet**
- Automatically turns on and off, which minimizes OR noise¹

**Laparoscopic option**
In addition to the features above, the MEGADYNE™ MEGA VAC™ PLUS Smoke Evacuator:
- Is especially useful during laparoscopy procedures
- Helps maintain the desired internal pressure (pneumoperitoneum)
- Can be used to evacuate CO₂ gas from the pneumoperitoneum at the end of laparoscopic procedures

¹ As per Instructions For Use  ² Ethicon, Per Instructions for Use, captures particle matter 99.999954% at 0.1 micron. Sept 2017, Data on File (C2372)
## Ordering information

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>CATALOG NUMBER</th>
<th>QUANTITY PER BOX</th>
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<tbody>
<tr>
<td>MEGADYNE™ MEGA VAC™ PLUS Smoke Evacuator with Laparoscopic Mode</td>
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<tr>
<td>MEGADYNE™ MEGA VAC™ Smoke Evacuator</td>
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<td>ULPA filter</td>
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<tr>
<td>MEGADYNE™ RF Sensor</td>
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Please refer always to the Instructions for Use / Package Insert that come with the device for the most current and complete instructions.