Value analysis summary

MEGADYNE™ Smoke Evacuation Portfolio
MEGADYNE™ Smoke Evacuation Portfolio

Executive overview

This smoke evacuation portfolio delivers all-around flexibility¹ while helping you minimize exposure to surgical smoke² and improve surgical-site visibility.

MEGADYNE™ Telescoping Smoke Evacuation Pencil
With an adjustable working length, the MEGADYNE™ Telescoping Smoke Evacuation Pencil is designed for efficient smoke evacuation at the source.

MEGADYNE™ MINI VAC™ Smoke Evacuator
The MEGADYNE™ MINI VAC™ Smoke Evacuator delivers effective and quiet performance for open and laparoscopic procedures.³

MEGADYNE™ ZIP-PEN™ Smoke Evacuation Pencil
The MEGADYNE™ ZIP-PEN™ Smoke Evacuation Pencil has three ergonomic grip positions to provide surgeons with choice, flexibility and comfort all in one device.

MEGADYNE™ Smoke Evacuator
The MEGADYNE™ Smoke Evacuator is designed with an ultra-quiet, high-suction, high-flow-rate vacuum motor.⁴

MEGADYNE™ MINI VAC™ Smoke Evacuator
The MEGADYNE™ MINI VAC™ Smoke Evacuator is designed with an ultra-quiet, high-suction, high-flow-rate vacuum motor.⁴

¹(120212-190806). ²(120892-190815). ³Captures and filters 99.999% of particulates and microorganisms 0.1 to 0.2 microns, at 50 +/- 10 dBA per IEC 60601-1 @ 1m (100280-181008). ⁴C00000005684.
What’s in electrosurgery smoke?

- Toxic gas and vapors
- Formaldehyde
- Toluene
- Benzene
- Carbon monoxide
- Dead and live cellular material, including blood fragments and viruses
- Irritant, carcinogenic and neurotoxic compounds
- Hydrogen cyanide

2 Control of Smoke from Laser/Electric Surgical Procedures, NIOSH, DHHS (NIOSH) Publication No 96-128 (075004-190205).
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The effects of surgical smoke on health and visibility

Potential **health risks** of surgical smoke

According to the CDC, exposure to surgical smoke can cause both acute and chronic health effects ranging from **eye, nose and throat irritation to emphysema, asthma or chronic bronchitis**.¹

How smoke **impacts visibility**

Surgical site without smoke

Surgical site with smoke

¹Control of Smoke from Laser/Electric Surgical Procedures, NIOSH, DHHS (NIOSH) Publication No. 96128 (075004-190205)
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MEGADYNE™ Smoke Evacuator

The MEGADYNE™ Smoke Evacuator delivers effective and quiet performance for open and laparoscopic procedures.¹

Filter is designed to capture particulate and microorganisms of 0.1-0.2 microns at 99.999% effectiveness.

Automatically activates with monopolar, bipolar, ultrasonic and advanced bipolar.

Designed to be intuitive and simple to use.

Flexible
• Allows users to adjust run time
• Supports continuous smoke evacuation under manual mode

Comprehensive
• Adjustable flow rate to accommodate insufflation air flow to maintain peritoneum pressure in laparoscopic procedures

3 ways to activate

Connect cable
Automatically detects energy device activation to trigger smoke evacuation

RF sensor
Automatically detects monopolar device activation to trigger smoke evacuation

Manual start/stop button
Push button to start or stop smoke evacuation

¹ Captures and filters 99.999% of particulates and microorganisms 0.1 to 0.2 microns, at 50 +/- 10 dBA per IEC 60601-1 @ 1m (100280-181008).
MEGADYNE™ Smoke Evacuation Portfolio

MEGADYNE™ MINI VAC™ Smoke Evacuator

User-friendly design
- The electronic controls on the face panel have been designed to be user-friendly and facilitate setup and operation
- Filter Life Indicator provides a clear signal of the status of the life of the filter in use (filters have up to 35 hours of life)

Efficient
- MEGADYNE™ Micro Safe Filter contains four different stages to capture smoke plume; this includes a ULPA-grade filter that captures particulates and microorganisms from 0.1 to 0.2 microns at an efficiency of 99.999%
- Activates via on/off switch, footswitch, or RF sensor automatic activation device

Quiet
- Designed with an ultra-quiet, high-suction, high-flow-rate vacuum motor

MEGADYNE™ Micro Safe Filter
MEGADYNE™ EZ Link RF Sensor
Footswitch (included with evacuator)
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MEGADYNE™ Telescoping Smoke Evacuation Pencil

Visibility
• Adjustable length of the shaft helps position the smoke evacuation tip closer to the surgical site; designed to provide efficient smoke evacuation

Surgeon comfort
• Cord in tubing was designed for comfort and ease of use
• Features tactile buttons for high user feedback

Efficiency
• Adjustable shaft minimizes the need to exchange electrodes
• MEGADYNE™ E-Z CLEAN™ Electrosurgical Electrodes with PTFE produced 68% less smoke vs. uncoated stainless steel blades

In a preclinical porcine model at 60W vs. uncoated stainless steel blades at 60W (p<0.001); Kisch T, et al. Electrocautery Devices with Feedback Mode and Teflon-Coated Blades Create Less Surgical Smoke for a Quality Improvement in the Operating Theater. Medicine, 2015;4(27)(074999-190121).

Secure telescoping shaft length at any position from fully extended to fully retracted

Fully compatible with more than 16 different smoke evacuators from 12 manufacturers.
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MEGADYNE™ ZIP-PEN™ Smoke Evacuation Pencil

Visibility
- Encapsulates the electrode for efficient smoke capture

Surgeon comfort
- Lightweight and designed to minimize hand fatigue
- Designed with a non-slip grip for comfort and control

Efficiency
- MEGADYNE™ E-Z CLEAN™ Electrosurgical electrodes with PTFE produced 68% less smoke vs. uncoated stainless steel blades

3 ergonomic, non-slip grip positions

“Trigger” grip method
Eliminated 100% of the torque off the back end of the pencil for improved surgeon ergonomics

“Over the hand” grip method
This grip reduces torque by draping the tubing over the surgeon's thumb or back of the hand

“Traditional” grip method
Tubing can be kept in the full upright position (as shown) to emulate a traditional pencil

1 075023-170621  2 075025-170621  3 In a preclinical porcine model at 60W vs. uncoated stainless steel blades at 60W (p<0.001): Kisch T, et al. Electrocautery Devices with Feedback Mode and Teflon-Coated Blades Create Less Surgical Smoke for a Quality Improvement in the Operating Theater. Medicine, 2015; 94(27) (074999-190121).
4 Only when in “trigger” configuration. (075019-170621)
MEGADYNE™ Smoke Evacuation Portfolio

The complete choice for **value-driving solutions, training and support**

**Complete portfolio**
Consolidate suppliers by acquiring all your Energy capital needs in one place. Ethicon offers the most comprehensive portfolio of Intelligent Energy Solutions.¹

**Complete financing and placement options**
A wide range of financing, placement and trade-in programs for Energy capital to provide a customized solution for your needs and any budget constraints.

**Complete training**
Energy education courses, training and other learning opportunities help the OR staff maintain licenses or certifications while staying up to date on OR safety standards, latest technologies and surgical techniques.

**Complete customer support**
Every day of the year, 24/7, a dedicated team of RNs and Biomeds is ready to answer your questions and connect you to rich resources.

# MEGADYNE™ Smoke Evacuation Portfolio

## Product codes

### MEGADYNE™ Smoke Evacuation Pencils and Shrouds

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<td>MEGADYNE™ Telescoping Smoke Evacuation Pencil, 15-Foot (4.5m) Tubing</td>
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### MEGADYNE™ Smoke Evacuators and Accessories

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Ordering information

How to order

All purchase orders are made to Johnson & Johnson Health Care Systems, Inc. (JJHCS).
If you want to order direct, you may order electronically (online) at:
• https://us.jjcustomerconnect.com or 1-866-565-4283
• Electronic Data Interchange (EDI) Helpline: 1-800-262-2888
Or, to place a non-electronic (manual) order, contact Johnson & Johnson Health Care Systems, Inc. at 1-800-255-2500 8:30 a.m.-6:30 p.m. (Eastern Standard Time) or fax us at 1-732-562-2212.

Customer support

For product use assistance, clinical guidelines, service and repair, emergency assistance, copy of a 510(k) clearance letter, or complaints, please contact our Customer Support Center by calling 877-ETHICON (384-4266). Our support center is staffed 24 hours a day, 7 days a week by qualified nurses to answer your product-related questions.

Learn more at ethicon.com