

Megadyne™

# Value analysis summary

## MEGADYNE™ Smoke Evacuation Portfolio



## MEGADYNE™ Smoke Evacuation Portfolio

# Executive overview

This smoke evacuation portfolio delivers **all-around flexibility**<sup>1</sup> while helping you **minimize exposure to surgical smoke**<sup>2</sup> 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™ 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 delivers effective and quiet performance for **open and laparoscopic procedures**.<sup>3</sup>



### MEGADYNE™ MINI VAC™ Smoke Evacuator

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

# What's in electrosurgery smoke?

Toxic gas  
and vapors<sup>1</sup>

Formaldehyde

Toluene

Benzene

Carbon  
monoxide

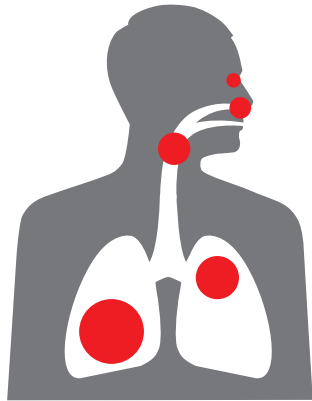
Dead and live  
cellular material,  
including blood  
fragments and  
viruses<sup>2</sup>

Hydrogen  
cyanide

Irritant,  
carcinogenic  
and neurotoxic  
compounds<sup>1</sup>

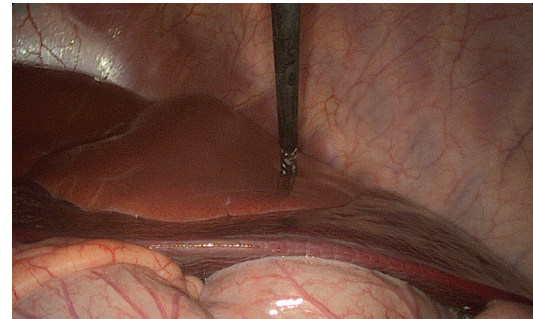
# The effects of surgical smoke on health and visibility

Potential **health risks** of surgical smoke

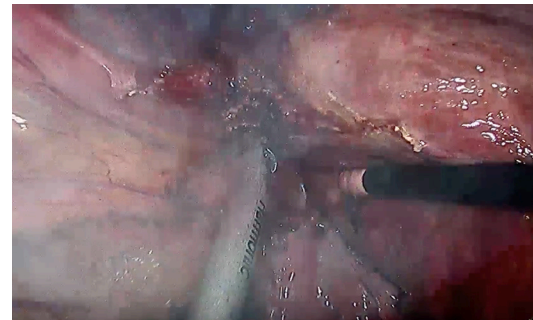


According to the CDC, exposure to surgical smoke can cause both acute and chronic health effects ranging from **eye, nose and throat irritation to emphysema, asthma or chronic bronchitis.**<sup>1</sup>

How smoke **impacts visibility**



Surgical site without smoke



Surgical site with smoke

## MEGADYNE™ Smoke Evacuation Portfolio

# MEGADYNE™ Smoke Evacuator

The MEGADYNE™ Smoke Evacuator delivers effective and quiet performance for **open and laparoscopic procedures**.<sup>1</sup>

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



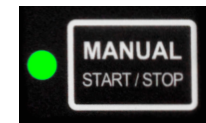
#### RF sensor

Automatically detects monopolar device activation to trigger smoke evacuation



#### Manual start/stop button

Push button to start or stop smoke evacuation



## 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<sup>1</sup>



MEGADYNE™ Micro Safe Filter



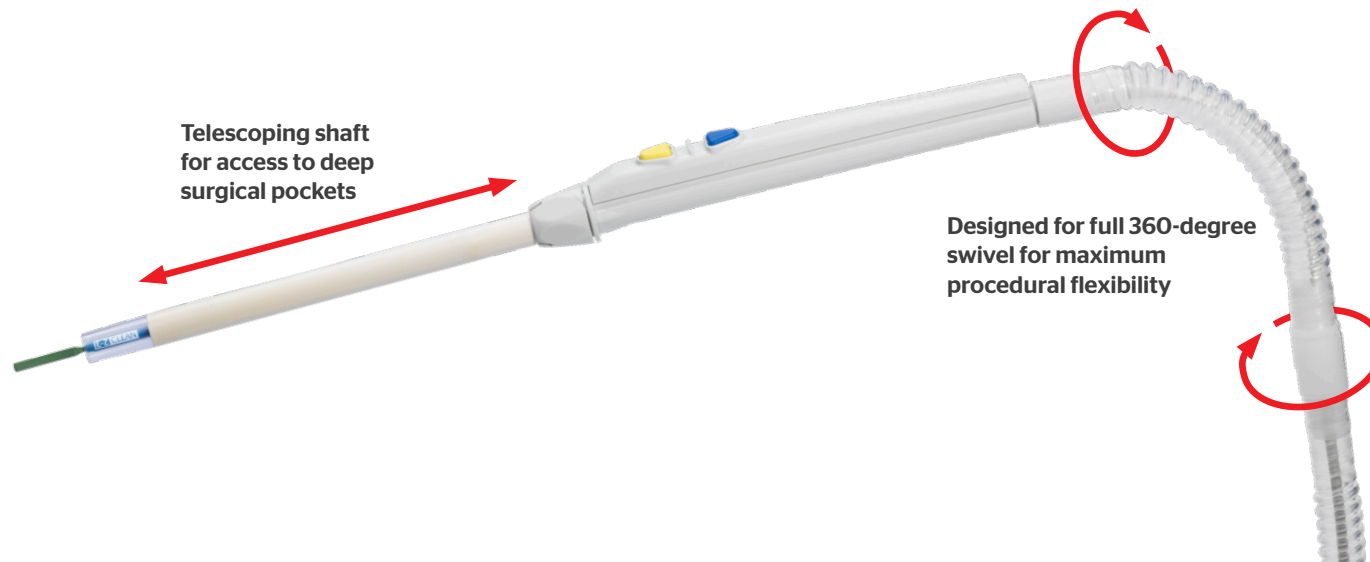
MEGADYNE™ EZ Link RF Sensor



Footswitch (included with evacuator)

## MEGADYNE™ Smoke Evacuation Portfolio

# MEGADYNE™ Telescoping Smoke Evacuation Pencil



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.



### 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

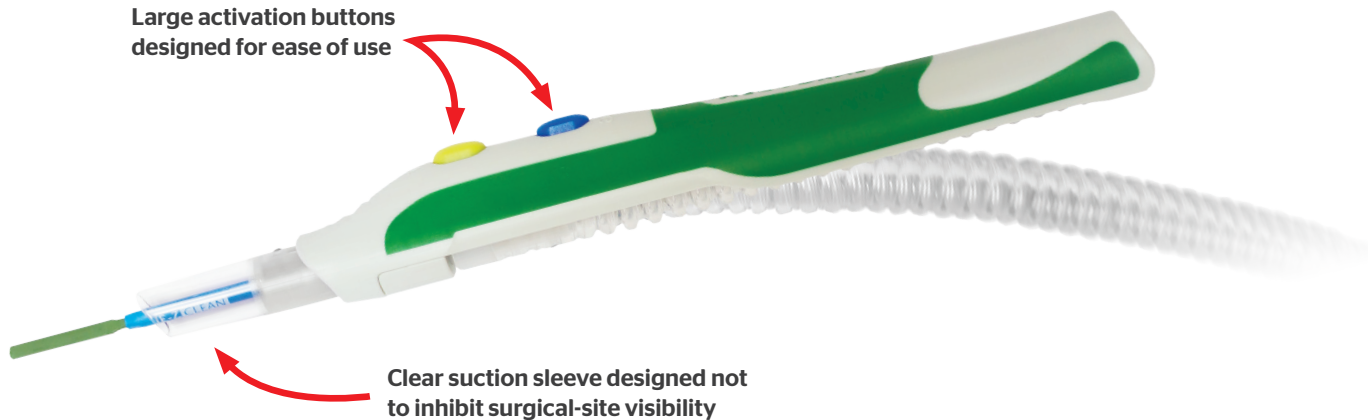
### Efficiency

- Adjustable shaft minimizes the need to exchange electrodes
- MEGADYNE™ E-Z CLEAN™ Electrocautery Electrodes with PTFE produced 68% less smoke vs. uncoated stainless steel blades<sup>1</sup>

<sup>1</sup> 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).

## MEGADYNE™ Smoke Evacuation Portfolio

# MEGADYNE™ ZIP-PEN™ Smoke Evacuation Pencil



### Visibility

- Encapsulates the electrode for efficient smoke capture

### Surgeon comfort

- Lightweight and designed to minimize hand fatigue<sup>1</sup>
- Designed with a non-slip grip for comfort and control<sup>2</sup>

### Efficiency

- MEGADYNE™ E-Z CLEAN™ Electrosurgical Electrodes with PTFE produced 68% less smoke vs. uncoated stainless steel blades<sup>3</sup>

### 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<sup>4</sup>



#### “Over the hand” grip method

This grip reduces torque by draping the tubing over the surgeon’s thumb or back of the hand



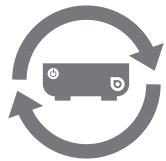
#### “Traditional” grip method

Tubing can be kept in the full upright position (as shown) to emulate a traditional pencil



## 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.<sup>1</sup>



### 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.

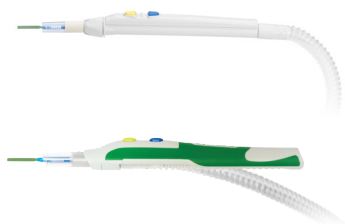


### Complete customer support

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

## MEGADYNE™ Smoke Evacuation Portfolio

# Product codes



### MEGADYNE™ Smoke Evacuation Pencils and Shrouds

Description	Catalog number	Quantity
MEGADYNE™ Telescoping Smoke Evacuation Pencil, 10-Foot (3m) Tubing	251010J	20/box
MEGADYNE™ Telescoping Smoke Evacuation Pencil, 15-Foot (4.5m) Tubing	251015J	20/box
MEGADYNE™ Telescoping Smoke Evacuation Pencil, 10-Foot (3m) Tubing, Bulk Non-Sterile	251010BN	n/a
MEGADYNE™ Telescoping Smoke Evacuation Pencil, 15-Foot (4.5m) Tubing, Bulk Non-Sterile	251015BN	n/a
MEGADYNE™ ZIP-PEN™ Smoke Evacuation Pencil, 10-Foot Tubing	252510	20/box
MEGADYNE™ ZIP-PEN™ Smoke Evacuation Pencil, 10-Foot Tubing with 22mm Connector	252510EC	20/box
MEGADYNE™ Attacha Vac Smoke Evacuation Shroud	212009J	25/box
MEGADYNE™ Attacha Vac Smoke Evacuation Shroud with 22mm Connector	212009EC	25/box



### MEGADYNE™ Smoke Evacuators and Accessories

Description	Catalog number	Quantity
MEGADYNE™ Smoke Evacuator	MESE1	1 EA
MEGADYNE™ Filter	2550J	1/box
MEGADYNE™ Fluid Trap	2555J	10/box
MEGADYNE™ RF Sensor	2255J	1 EA
MEGADYNE™ Connect Cable, 1m	2403J	1 EA
MEGADYNE™ Connect Cable, 2.1m	2406J	1 EA
MEGADYNE™ Laparoscopic Tubing	2390J	25/box
MEGADYNE™ Speculum Tubing	2395J	25/box
MEGADYNE™ MINI VAC™ Smoke Evacuator, 110V	ECVV120	1 EA
MEGADYNE™ MINI VAC™ Smoke Evacuator, 210V	ECVV220	1 EA
EZ Link RF Sensor for MINI VAC™ Smoke Evacuator	MGEZLINK01	1 EA
MEGADYNE™ Micro Safe Filter 1 pk	MGVS353	1 EA
MEGADYNE™ Micro Safe Filter 2 pk	MGVS35302	2/box
Fluid Trap for MINI VAC™ Smoke Evacuator	MGVSFT10	10/box

## MEGADYNE™ Smoke Evacuation Portfolio

# 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](https://www.ethicon.com)**