Electric Surgery

SMOKE EVACUATION UNIT

LAPAROSCOPIC SMOKE EVACUATION DEVICES
Passive / Active / Tube

SMOKE EVACUATION PENCIL
Telescopic / Dual Extension / Economy

ESU PENCIL
Ergonomic
Standard

PROPLATE
PROPLATE / Cable

Eva *Q* Max ™

Smoke Free Evacuation

Procedure Operating Modes

The desire procedure can be set simply by touching the corresponding image. Automatically customizing suction default level based on desired surgical procedure.

Longer Lasting Filter Life (up to 50 Hours)
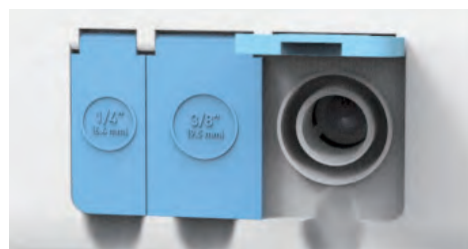
Can save on running costs.

Touch Screen

The touch screen panel can be operated while wearing gloves.

Multi Port Design

Three different sized connection ports are designed to create an air-tight bond with the desired port. The port cover cap eliminates any possible contamination with the glove when connecting the hose to the unit.

Technical Specification

Item	Specification
Noise Levels (Nominal Values)	Maximum power < 55 dBA
Dimensions (H x W x D)	6 in x 11 in x 15.5 in (15.2 cm x 27.9 cm x 39.4 cm)
Flow Rates	25 cfm (708 lpm) using 7/8 in (22 mm) tubing
Weight	With filter installed: 12.0 lbs (5.0 kg) Without filter installed: 9.5 lbs (4.0 kg)
Certifications	CE, FDA
Warranty	One (1) Year Full Warranty
Multi Port	1/4 in (6.4mm), 3/8 in (9.5mm), 7/8 in (22mm)

Model	Product Description	Included	Packaging Info.
EQM-U	EvaQMax^{TM} Electro Surgical Evacuator (Without filter, Includes one footswitch)	-	1 / each
EQM-CAF	EvaQMax^{TM} Filter, Multi ports design with ULPA filter (ULPA particle Filter with 99,999+% efficiency)	Optional	4 / Case
EQM-A	EvaQMax^{TM} Auto, Automatic Activation Device	Optional	40 / Case
EQM-FT	EvaQMax^{TM} Fluid Trap, 7/8 in (22 mm) and 1/4 in (6.4 mm) tubing connection ports	Optional	20 / Case

Accessories

Foot-switch (Included)

Automatic Activation Device (Optional)
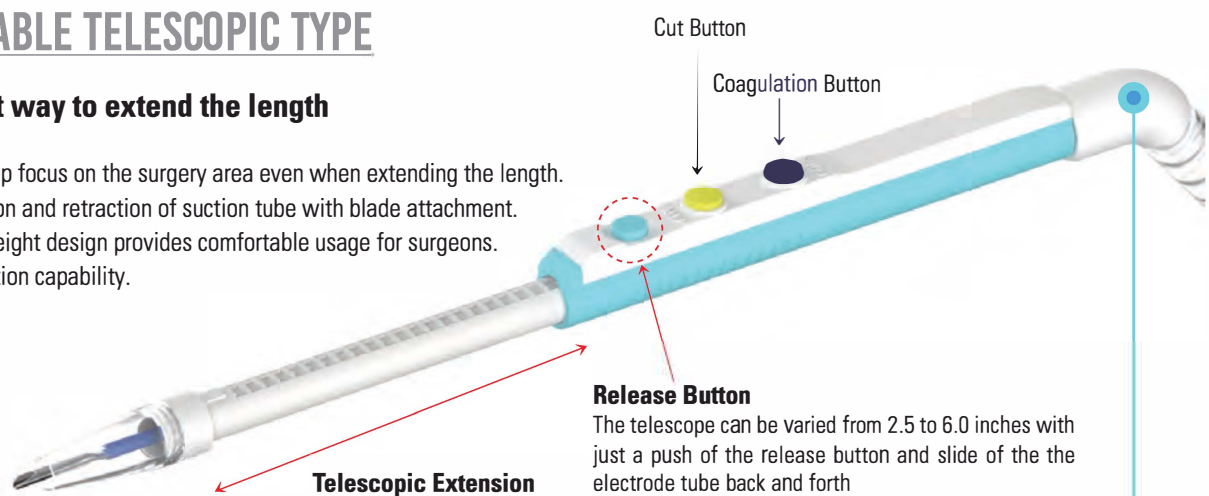
Fluid Trap (Optional)

PROPENCIL Smoke Evacuation series

Telescopic Smoke Evacuation Pencil

ONE TOUCH BUTTON
EXTENDABLE TELESCOPIC TYPE

The easiest way to extend the length

1. Ability to keep focus on the surgery area even when extending the length.
2. Easy extension and retraction of suction tube with blade attachment.
3. Thin, light weight design provides comfortable usage for surgeons.
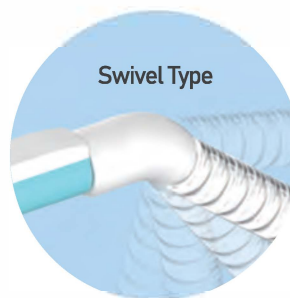4. Superior suction capability.

Cut Button

Coagulation Button

Telescopic Extension

Release Button
The telescope can be varied from 2.5 to 6.0 inches with just a push of the release button and slide of the the electrode tube back and forth

2 TYPES
FOR RANGE OF MOTION

1. Swivel Type
2. Elbow Type

※Choose from all Smoke Evacuation Pencils.

Swivel Type

- 360 Degree Swivel
- Free hand movement

Elbow Type

- Fixed Elbow Without swivel

Model	Product Description	Type	Cable Length	Packaging Info.
EvST	Telescopic, 2.5" Non-Stick Ceramic Coated Blade, Holster	Swivel	10' Cable	
EvST-5	Telescopic, 2.5" Non-Stick Ceramic Coated Blade, Holster	Swivel	16' Cable	
EvSTI	Telescopic, 2.5" Insulated Non-Stick Ceramic Coated Blade, Holster	Swivel	10' Cable	
EvSTI-5	Telescopic, 2.5" Insulated Non-Stick Ceramic Coated Blade, Holster	Swivel	16' Cable	1 pc / Pack
EvST-ELB	Telescopic, 2.5" Non-Stick Ceramic Coated Blade, Holster	Elbow	10' Cable	20 pcs/ Case
EvST-ELB-5	Telescopic, 2.5" Non-Stick Ceramic Coated Blade, Holster	Elbow	16' Cable	
EvSTI-ELB	Telescopic, 2.5" Insulated Non-Stick Ceramic Coated Blade, Holster	Elbow	10' Cable	
EvSTI-ELB-5	Telescopic, 2.5" Insulated Non-Stick Ceramic Coated Blade, Holster	Elbow	16' Cable	

Eva Q Max™ Laparo

Laparoscopic Smoke Evacuation Devices

Bio Protech currently offers Laparoscopic smoke evacuation unit, tubing and accessories that are used in Laparoscopic OR. We currently do not offer insufflators at this time .
Our current Laparoscopic product can be configured and used in 5 different ways as follows;

PASSIVE
MODEL : PSF2

Recommendation to use :
Simple use without smoke evacuation devices

How to use :
Connect to trocar only

· ULPA filter integrated.
· Fluid Trap is built in.
· Compatible to all standard luer lock fittings.

Passive type removes smoke & vapor automatically from the abdominal cavity. It is self-working smoke evacuation device and no required any evacuator or suction device. It allows the safest way to maintain the pneumoperitoneum while the smoke evacuation is being performed during laparoscopic surgery.

ACTIVE VOLUME CONTROL
MODEL : ASF3

Recommendation to use :
When OR has wall suction to remove smoke through the suction canister.

How to use :
Connect to trocar on one side
Connect to canister of wall suction on the other side
Dial volume controller to adjust air flow

· ULPA filter integrated
· Fluid Trap is built in
· Air flow controller
· Compatible to all standard luer lock fittings and suction system.

Active Volume Control is connected to the trocar on one side to evacuate smoke created from Laparoscopic surgery and connected to the canister on the other side to create the desired air flow by mounted volume controller on Active Volume Control.

PROPPENCIL series

Ergonomic Pencil

ERGONOMIC DESIGN & NON-SLIP HANDLE

- Unique design fits in your hand that is helpful to reduce your fatigue.
- Engraved body for surgeon to secure the grip.

Model	Button Type	Product Description	Cable Length	Packaging Info.
DB	Push Button	2.5" Stainess Blade, No Holster	10' Cable	
DR	Rocker Button	2.5" Stainess Blade, No Holster	10' Cable	
DBN	Push Button	2.5" Stainess Coated Blade, No Holster	10' Cable	
DRN	Rocker Button	2.5" Stainess Coated Blade, No Holster	10' Cable	1 pc / Pack 25 pcs/ Box 2 Boxes / Case
DBH	Push Button	2.5" Stainess Blade, Holster	10' Cable	
DRH	Rocker Button	2.5" Stainess Blade, Holster	10' Cable	
DBNH	Push Button	2.5" Stainess Coated Blade, Holster	10' Cable	
DRNH	Rocker Button	2.5" Stainess Coated Blade, Holster	10' Cable	

UNIVERSAL STANDARD DESIGN

- Interchangeable design all over the world.
- Either button or rocker switch is available for your preference.

Model	Button Type	Product Description	Cable Length	Packaging Info.
SB	Push Button	2.5" Stainess Blade, No Holster	10' Cable	
SR	Rocker Button	2.5" Stainess Blade, No Holster	10' Cable	
SBN	Push Button	2.5" Stainess Coated Blade, No Holster	10' Cable	
SRN	Rocker Button	2.5" Stainess Coated Blade, No Holster	10' Cable	1 pc /Pack 25 pcs/ Box 2 Boxes / Case
SBH	Push Button	2.5" Stainess Blade, Holster	10' Cable	
SRH	Rocker Button	2.5" Stainess Blade, Holster	10' Cable	
SBNH	Push Button	2.5" Stainess Coated Blade, Holster	10' Cable	
SRNH	Rocker Button	2.5" Stainess Coated Blade, Holster	10' Cable	

PROPLATE series

The advanced Hydro-Gel improves conductivity, lowers impedance, eliminates residue and minimizes the risk of pad site burn.

Optimal Adhesive Strength
With advance technology and research, we've improved the adhesion between the skin and the grounding pad.

Lower Impedance
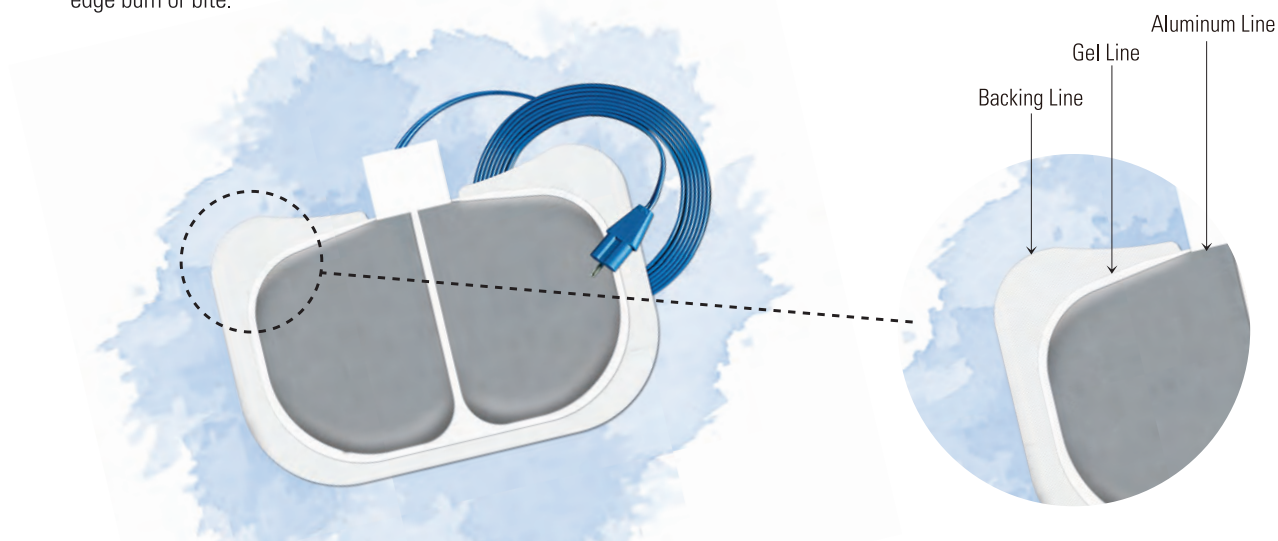With optimal Hydro-Gel, the ProPlate can safely maintain high current density

Residue-Free
Hydro-Gel provides maximum adhesion and leaves zero residue on the patient, mess free!

ESU Grounding Pad / Over-sized Gel

Minimizes Risk of pad site burns
PROPLATE ESU grounding pads are designed and manufactured using anadvanced gel overlay system to reduce the possibility of edge burn or bite.

Aluminum Line
Gel Line
Backing Line

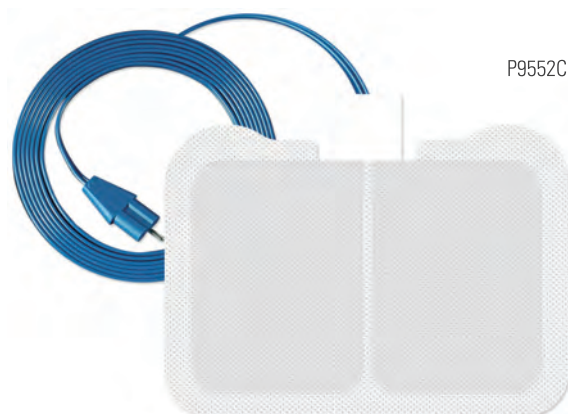| Population	Model		Type	Size	Active Area	Adhesive Area
	Non-corded Cloth Type Foam Type	Corded Cloth Type Foam Type		WxD (mm)	cm²	cm²
Adult/Pediatric	9631C / 9631F	P9631C / P9631F	Horizontal, Solid	154*124	112	155
Adult/Pediatric	9632C / 9632F	P9632C / P9632F	Horizontal, Split	154*124	112	155
Adult	9641C / 9641F	P9641C / P9641F	Horizontal, Solid	167*124	129	169
Adult	9642C / 9642F	P9642C / P9642F	Horizontal, Split	167*124	129	169
Neonatal	9611C / 9611F	P9611C / P9611F	Horizontal, Solid	98*75	34	52
Neonatal	9612C / 9612F	P9612C / P9612F	Horizontal, Split	98*75	34	52

Standard / Horizontal Type

9551C, 9551F

9552C, 9552F

9561C, 9561F

9562C, 9562F
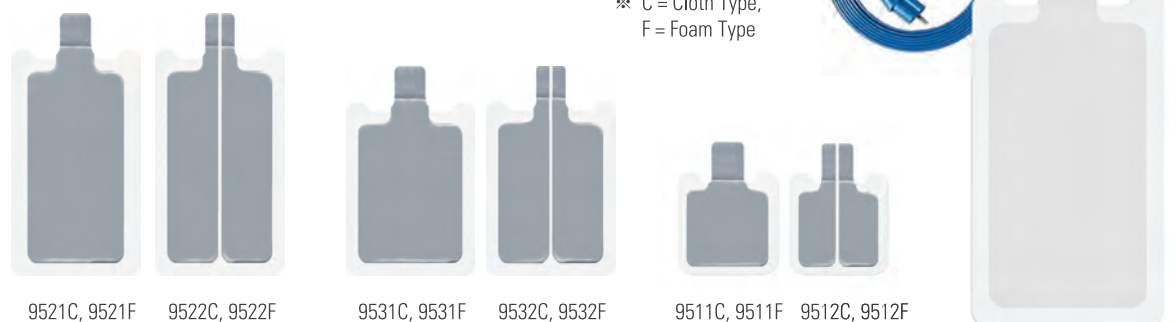
P9552C

※ C = Cloth Type,
   F = Foam Type

Population	Model		Type	Size	Active Area	Adhesive Area
	Non-corded Cloth Type Foam Type	Corded Cloth Type Foam Type		WxD (mm)	cm²	cm²
Adult/ Pediatric	9551C / 9551F	P9551C / P9551F	Horizontal, Solid	150*120	111	153
Adult/ Pediatric	9552C / 9552F	P9552C / P9552F	Horizontal, Split	150*120	104	153
Pediatric	9561C / 9561F	P9561C / P9561F	Horizontal, Solid	131*120	95	134
Pediatric	9562C / 9562F	P9562C / P9562F	Horizontal, Split	131*120	88	134
Adult	9571C / 9571F	P9571C / P9571F	Horizontal, Solid	180*120	134	184
Adult	9572C / 9572F	P9572C / P9572F	Horizontal, Split	180*120	126	184

Packaging Information

Type	Pouch	Box	Case
Non-corded Type	5pcs	100pcs	800pcs
Corded Type	1pc	25pcs	200pcs

Standard / Vertical Type

※ C = Cloth Type,
F = Foam Type

P9521C

9521C, 9521F   9522C, 9522F   9531C, 9531F   9532C, 9532F   9511C, 9511F   9512C, 9512F

Population	Model		Type	Size	Active Area	Adhesive Area
	Non-corded Cloth Type Foam Type	Corded Cloth Type Foam Type		WxD (mm)	cm²	cm²
Adult	9541C / 9541F	P9541C / P9541F	Vertical, Solid	105*215	130	196
Adult	9542C / 9542F	P9542C / P9542F	Vertical, Split	105*215	128	196
Pediatric	9531C / 9531F	P9531C / P9531F	Vertical, Solid	105*165	91	143
Pediatric	9532C / 9532F	P9532C / P9532F	Vertical, Split	105*165	88	143
Adult/ Pediatric	9521C / 9521F	P9521C / P9521F	Vertical, Solid	200*101	112	173
Adult/ Pediatric	9522C / 9522F	P9522C / P9522F	Vertical, Split	200*101	115	173
Neonatal	9511C / 9511F	P9511C / P9511F	Vertical, Solid	74*98	36	52
Neonatal	9512C / 9512F	P9512C / P9512F	Vertical, Split	74*98	33	52

Cable

RCV300

RCE300

Model	Specification	Packaging Info.
RCV300	Cable for use with all ARM-equipped and Valleylab REM-equipped generators. Enables pad-to-patient contact quality monitoring 3m	1 each
RCE300	Cable for use with Erbe and Elmed generators 3m	1 each

www.protechsite.com

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