



# Pressure Controlled Endoscopic Surgery



Improve **safety** as a result of  
enhanced **visibility** during surgery

# ENDO P® | System features

- 1) Mechanically driven irrigation
- 2) Cavity pressure based on patient's blood pressure
- 3) Individual control of flow and pressure with foot pedal

**ENDO P® provides fluid irrigation for all urological endoscopic procedures including TUR-P, TUR-B, and URS.**

The ENDO P® can separately control inflow and outflow using two pump impellers. These are automatically controlled using novel software in ENDO P®, which separately controls flow and pressure in the operating area. By controlling both inflow and outflow, pressure and flow can be adjusted separately by the user via a foot pedal. The system has default baseline setting based upon the requirements of the operation type. ENDO P® comprises the following components:

#### ENDO P® device

- A reusable, non-sterile footswitch
- A reusable, non-sterile power cable
- A reusable, non-sterile blood pressure cuff (ENDO BP™)

#### Consumables available for ENDO P® (sold separately):

1. ENDO P® Patient Cassette including ENDO P® Irrigation Tube
2. ENDO P® Day Cassette
3. ENDO P® Irrigation Tube

The sterile Patient Cassette is for single use and is supplied with a sterile Irrigation Tube. The sterile Day Cassette can be used for an entire operating session (up to 12 hours continuous use). The sterile Irrigation Tube is supplied with the Patient Cassette and is also available separately.

#### Accessories for ENDO P® (sold separately):

1. ENDO H® (non-sterile heater) including power cable and communication cable for ENDO P®
2. ENDO H® Bag

#### New unique safety function:

Bonvisi has now further improved ENDO P® with a warning function that alerts the user at any kind of leakage, mechanical or physical. The new function makes ENDO P® even more preventive against TUR syndrome and other risks, this is a unique function not available during gravity driven irrigation or in other endoscopic pumps.



# ENDO H<sup>®</sup> | Heater



## **ENDO H<sup>®</sup> ensures that the irrigating fluid is warmed before patient contact.**

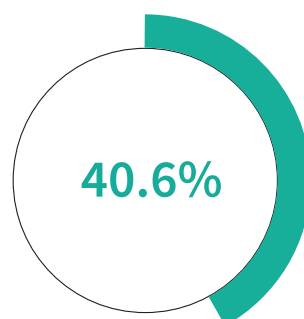
The new ENDO H<sup>®</sup> is a unique irrigation fluid warming system that works in conjunction with the ENDO P<sup>®</sup>. This device ensures that the irrigating fluid used during endoscopic surgery is warmed to a temperature close to normal body temperature. ENDO H<sup>®</sup> warms the fluid consistently at all flow rates and includes a safety system that ensures that the fluid can never reach an unsafe temperature.

The ENDO H<sup>®</sup> Heater Bag can be used for an entire operating session and is therefore very cost effective. The use of ENDO H<sup>®</sup> removes the need to pre-warm fluid bags prior to surgery and is simple to set up. This integral part of the Bonvisi fluid management system further enhances the quality and safety of urological endoscopic surgery.

## **The Bonvisi Tower**

The Bonvisi Tower is a new addition to our system. This high-quality OR cart is specifically designed to safely hold and transport the ENDO P<sup>®</sup> system. The tower includes electrical supply for all our devices.

## ENDO P<sup>®</sup> reduces bleeding during TUR-P surgeries<sup>1</sup>



1) This is a summary of the report "Full Statistical Analysis July 2015, URO Endoscopic surgery comparing Gravity system and ENDO Pump System". Study Identifier: ENDO 06-02, Mikael Åström, M. Sc., Ph.L., version 04, July 23, 2015.

## ORDER INFORMATION

### EQUIPMENT

REF NUMBER	PRODUCT	COMMENT
E5501010S	ENDO P®	(including 2-pedal footswitch)
E5551010	ENDO P®	(excluding footpedal)
E5502020S	ENDO H® (Heater)	(including ENDO H® connection cable)
E5502050	Footswitch (Footpedal)	Compatible with ENDO P®
E5502030	Bonvisi Tower	Equipment cart
E5502030M	ENDO BP™ (Small)	Blood pressure cuff, 17-25 cm
E5502030S	ENDO BP™ (Medium)	Blood pressure cuff, 23-33 cm
E5502030L	ENDO BP™ (Large)	Blood pressure cuff, 28-40 cm
E5502030XL	ENDO BP™ (Extra Large)	Blood pressure cuff, 40-50 cm
E5502060	ENDO BP™ (Leg)	Blood pressure cuff, 38-50 cm

### DISPOSABLES

REF NUMBER	PRODUCT	COMMENT
D5401012	ENDO P® Day Cassette	20 units/box, 400 units/pallet
D5401014	ENDO P® Patient Cassette	20 units/box, 400 units/pallet
D5401016	ENDO P® Irrigation Tube	100 units/box, 2000 units/pallet
D5401020	ENDO H® Heater Bag	40 units/box

### SPARE PARTS

REF NUMBER	PRODUCT	COMMENT
A5502025	ENDO Power cable universal	1 piece
A5502035	ENDO BP Cable universal	1 piece
A5502065	ENDO H® connection cable	1 piece

For more information visit our website:

[www.bonvisi.com](http://www.bonvisi.com)

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