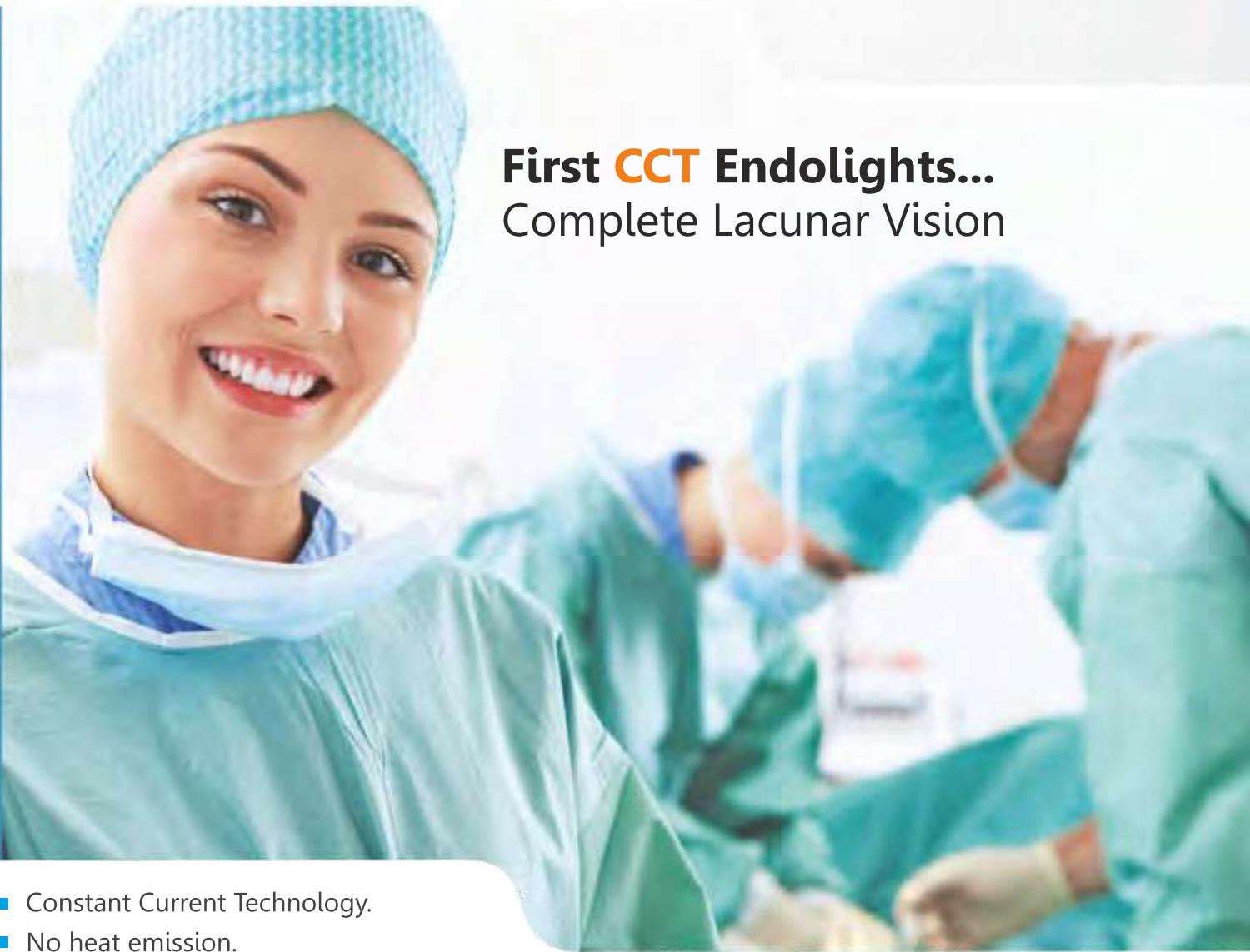


**Endolux**

Add Hi-Tech Precision to your Surgical Expertise...



## First **CCT** Endolights... Complete Lacunar Vision

- Constant Current Technology.
- No heat emission.
- High Color Rendering Index.
- Surgery & real time display.\*



**Shalya** EndoLUX



**Shalya** EndoLUX e

Endoscopic Light Source



## Technical Specifications of Shalya EndoLUX

Light Source Type	LED
LED Brightness	4230 lumens @ 21 Amp (Endolux), 3900 lumens @ 21 Amp (Endolux e)
Fiber Interface	Storz fiber (Ø: 4.8 mm)
Noise	< 50 db
Brightness Control	1 to 30 (in steps of 1), 30 to 50 (in steps of 2), 50 to 100 (in steps of 5) (Endolux), 01 to 10 ( in steps of 1 ) (Endolux e)
Light Color	Cool white (Daylight)
Color Temperature	6500 K +/-600
Life	>50,000 h
Color Rendering Index	> 75
Input Voltage	95 to 264 VAC, 50/60 Hz
Maximum Power Consumption	150 W
Maximum LED Current	25 Amp
Touch Control Panel	5" LCD screen (Endolux), LED bar (Endolux e)
Design Standard	General Safety Standards: IEC 60601-1-1 EMI/EMC Compatibility Standard: IEC 60601-1-2 Endoscopic Equipment Safety Standard IEC 60601-2-18

## Features of Shalya EndoLUX

- **Constant Current Driving Technology** ensures consistent Color temperature, **CRI** & maintains the light intensity throughout the procedure.
- **Better Substitute to Xenon Source:** Luminous output, CCT and CRI of the light are comparable with a typical **300W** Xenon Lamp, while consuming less power.
- **High CRI (Ra):** Color Rendering Index (Ra) > 75 signifies that the entire visible light spectrum is perceived, enabling visualization of **finest variation in tissue color**.
- **Steady Light Output: Flicker free** LED light source which ensures clear view as well as assures **acquisition of clear images** of tissue.
- **No Undesired Heat: No emission of UV and IR** from the LED source, which avoids any **undesired heating of tissue**.
- **Automatic Shut off:** With **special detection sensors**, abrupt disconnection of fiber cable automatically shuts off the light, providing operator safety due to anti-dazzle feature & avoiding power wastage.
- **Surgery Timing Indicator** indicates the time from the onset of surgery as well as the standard time according to the set time zone with **lifetime usage indicator**. \*
- **Plug & Start:** As **no warm up & cool down time** required, unit turns on and off immediately.
- **Enhanced Source Life:** Long Life LED (>60,000 hours), eliminates the need of **frequent replacement**, reducing the maintenance cost and environmental waste.
- **Automatic Cooling System for LED:** Detects temperature & turns on fan only if it's required which helps in **power saving**.
- **Surgery History:** Maintains upto last **100 surgery records** for Medico legal compliance. \*
- **Device Usage Indicator:** Displays the total usage time of the device in hours. \*
- **Control** via **USB/Ethernet/CAN** for centralized control in conjugation with other Shalya OT equipments. \*

Note: \* Feature not in EndoLUX e

## Applications of Shalya EndoLUX

Endoscopy (General, Gastroenterological and Urology), Arthroscopy, Endoscopic Spine Surgery & ENT Surgery, Laparoscopy (Urology, General and Gynecological Surgery)

Storz's size Fibre Optic  
Endoscopy Cable  
4.8mm, 2.3mtr Length

**Other instrument end fittings available**



## XcellLance Medical Technologies Pvt. Ltd.

Shalya Avenue, W-239, Rabale MIDC, Navi Mumbai - 400 701. INDIA ☎:+91-22-7114 2400.

**Endojet**

Add Hi-Tech Precision to your Surgical Expertise...

# CO<sub>2</sub>comfort

for Surgeon



- High Flow Insufflation
- Over Pressure Detection
- Smoke & Mist Evacuator
- Heated High Pressure Regulator



CO<sub>2</sub> Insufflator



## Technical Specifications of **Shalya** Endojet - CO<sub>2</sub> Insufflator

Type of Gas	Medical CO <sub>2</sub>		
Pre-setted Modes	Veress Mode, Endoscopy Mode, Pediatric Mode* & Bariatric Mode*		
Set Pressure	Veress Mode: 1-18 mmHg	Endoscopy Mode : 1-20 mmHg*   1-30 mmHg	
	Pediatric Mode: 1-15 mmHg*	Bariatric Mode : 1-30 mmHg*	
Gas Flow Rate	<b>Modes</b>	<b>30 LPM</b>	<b>50 LPM*</b>
	Veress Mode	1 to 5 LPM	1 to 5 LPM
	Pediatric Mode*	1 to 10 LPM	1 to 10 LPM
	Endoscopy Mode	1 to 30 LPM	1 to 50 LPM
	Bariatric Mode*	1 to 30 LPM	1 to 50 LPM
Flow rate setting	1 LPM/step		
Pressure setting	1 mmHg/step		
Connection Options	Cylinder/Central Gas Supply (Optional)		
Maximum input gas supply pressure	80 Bar / 1160 psi / 60,000 mmHg		
Maximum output gas supply pressure	0.07 Bar / 1.06 psi / 45 mmHg		
Input Voltage	95 to 260 V AC, 50/60 Hz		
Audio Indicator	Speaker to give error tone for safety.		
Touch Control Panel	5" LCD screen		
Design Standard	General Safety Standards: IEC 60601-1		
	EMI/EMC Compatibility Standard: IEC 60601-1-2		

### Features of **Shalya** Endojet

- **High Flow Insufflation** with maximum insufflation flow rate **upto 30 or 50\* LPM**.
- **Accurate Flow Control**: Flow rate can be set in step of **1 LPM** for delicate & critical surgeries.
- **Automatic Temperature Control** of the CO<sub>2</sub> to avoid **Hypothermia & Hyperthermia**.
- **User Settable** Temperature Control for heater system.\*
- **Clear & Unobstructed View** as warmed CO<sub>2</sub> gas **avoids fogging over the camera**.
- **Smoke & Mist Evacuator** provides clear & unobstructed view of surgical field during laparoscopic procedures.\*
- **Surgery Timing Indicator** indicates the time from the onset of surgery.
- **Over Pressure Detection** controls the gas pressure without user's interruption.
- **Gas Indicator** for remnant & consumed gas in the cylinder being displayed on-screen.
- **Cylinder Status** gives continuous visual indication of present state of the cylinder.
- **Automatic Pressure Regulation** with **internal exhaust port** which prevents the pneumo-peritoneum from **collapsing or overpressure**.
- **Tube obstruction alarm** in case gas tubing gets obstructed or pinched during surgery.\*
- **Virtual/External Pressure Alarm**: Unit gives an audio visual alarm & holds the abdominal pressure when sudden external pressure is applied during trocar insertion.
- **Surgery History** maintains upto last **100 surgery records** for Medico legal compliance.
- **Control** via **USB/Ethernet/CAN** for centralized control in conjugation with other Shalya OT equipments.

### Applications of **Shalya** Endojet

Widely used for Surgical Laparoscopic procedures like Total Laparoscopic Hysterectomy (TLH), Lap Cholecystectomy, Myomectomy, Lap Appendectomy, Lap Splenectomy, Laparoscopic Hernia Repair, Laparoscopic Hepatectomy, Laparoscopic Pancreatectomy, Laparoscopic General Surgery & Laparoscopic Cancer Surgery.



High Pressure Hose, Length 1.5mtr



Insufflation Silicon Tubing Set 3 mtr with HME Filter



Smoke Evacuation Footswitch\*



Smoke Evacuation Silicon Tubing Set\* 3 mtr with ULPA / Carbon Smoke Filter

**Note** - \* Features not applicable for Endojet E

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**Aquaflow**

Add Hi-Tech Precision to your Surgical Expertise...

H i g h P e r f o r m a n c e

# Aquaflow

with iLPM Technology



Suction Irrigation Pump





## Technical Specifications of **Shalya** Aquaflow

<b>Pressure Range</b>	<ul style="list-style-type: none"> <li>Irrigation : 10 to 400 mmHg <math>\pm</math> 10%</li> <li>Suction : 55 to 550 mmHg <math>\pm</math> 20%</li> </ul>
<b>Flow Range</b>	<ul style="list-style-type: none"> <li>Irrigation : 100 mL/min - 2000mL/ min <math>\pm</math> 10%</li> </ul>
<b>Pressure Setting</b>	<ul style="list-style-type: none"> <li>Irrigation : 10 mmHg each step</li> <li>Suction : 55 mmHg each step</li> </ul>
<b>Flow Setting</b>	<ul style="list-style-type: none"> <li>Irrigation: 100 mL/min each step</li> </ul>
<b>Operating Modes</b>	<ul style="list-style-type: none"> <li>Only Suction</li> <li>Only Irrigation with flow control</li> <li>Simultaneous Suction Irrigation with flow control</li> </ul>
<b>Filter</b>	<ul style="list-style-type: none"> <li>Disposable Cartridge Filter (0.2 micron)</li> </ul>
<b>Tubing</b>	<ul style="list-style-type: none"> <li>Silicon Tubing</li> </ul>
<b>Tube Specifications</b>	<ul style="list-style-type: none"> <li>Silicon tubing for Irrigation and Suction of 3Mtr</li> </ul>
<b>Touch Control Panel</b>	<ul style="list-style-type: none"> <li>5" LCD Screen with brightness control</li> </ul>
<b>Design Standard</b>	<ul style="list-style-type: none"> <li>General Safety Standards : IEC 60601-1-1</li> <li>EMI/EMC Compatibility Standard : IEC 60601-1-2</li> </ul>

## Features of **Shalya** Aquaflow

- **Flow & Pressure controlled Suction-Irrigation System**
- **iLPM Technology** Isolated Liquid Pressure Monitoring Technology
- **Disposable Pressure** transducer to avoid **Patient Fluid Contamination**
- **Real Time Pressure & Flow Monitoring** of Intra-Uterine Cavity / specific surgical site
- **Built-in Low Noise** suction pump to allow simultaneous suction-irrigation process
- **Surgery Specific Custom Modes** : Hysteroscopy, Laparoscopy, Arthroscopy, & Urology
- **Alarm Indication** for consumed fluid after safety threshold
- **Priming / Flush** for removing air bubble from tubing at initialization
- **Touch Screen LCD Interface**
- **Available** with trolley assembly & Canister option
- **Without Suction** Product option available

## Applications of **Shalya** Aquaflow

- **Arthroscopy** (Orthopaedic Surgery)
- **Laparoscopy** (General Surgery)
- **Hysteroscopy** (Gynaecological Surgery)
- **Low Pressure wound irrigation**
- **Endoscopy** (General, Gastroenterological and ENT Surgery)
- **Urology**

## Standard Accessories of **Shalya** Aquaflow



**Suction Irrigation System with Trolley**

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