



PRODUCT CATALOG VASCULAR

HOME OF THE ORIGINAL KLEIN PUMP

by Dr. Jeffrey Klein

Introducing the
NEW 4th Generation



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STILL INFILTRATING BY HAND?

Using Manual Infiltration? Save your hand, use a Klein Pump!



- Tumescent Anesthesia is easier, faster, and more efficient.
- Numbing requires less time than Manual Infiltration.
- More patient comfort with 2-3 insertion sites versus 8-10.
- Instant numbing of the leg - most patients even fall asleep.
- Foot pedal activates pump.
- Saves operating room time.
- Minimize potential for surgeon carpal tunnel and other issues.

KLEIN TUMESCENT INFILTRATION PUMP (KTIP)

**4th Generation (designed by Dr. Jeffrey Klein)
High-volume, precision delivery**



- Adjustable Pump Rates in 1RPM Increments
- 1 to 600 RPM
- Up to 1,000mL Flow Rate
- Bi-Directional Pumping Selection
- Membrane Touch Control Keypad
- Foot Pedal or Finger-Touch Control
- Adjustable Sound Volume
- 77,000 Hrs Life Expectancy
- Save Settings for Common Procedures

3-year limited warranty

Includes: 1 foot pedal, 1 Single Spike Infiltration Tubing, power source, IFU

KLEIN INFILTRATION PUMP (KIP-II)

High-volume, fluid delivery



- 10 lbs.
- Dimensions 12 x 9 x 6
- Single-direction drive
- Adjustable flow rate
- Adjustable sound
- Adapts to 115 or 230 volts
- Dual-mode foot pedals
- Toggle or Momentary Mode
- Optical cut-off switch
- Easy-load tubing pump head
- CE Marked
- Option for additional pedal
[\(FOOT-PEDAL-KIP-AP\)](#)

1-year limited warranty

Includes: 1 foot pedal, 1 Single Spike Infiltration Tubing, power cord, IFU

INFILTRATION TUBING

Infiltration Single-Spike (ITS)

- Single Spike, luer-lock
- Inner Diameter: .110in (.279cm)
- Outer Diameter: .160in (.406cm)
- Silicone Sleeve Diameter: .187in x .375in
- Length: 15.5 ft, 200in (508cm)
- Free of natural latex and DEHP
- CE Marked, boxes of 10 or 20



Infiltration CV Single-Spike (CVT)

- Single Spike, luer-lock
- Inner Diameter: .110in (.279cm)
- Outer Diameter: .160in (.406cm)
- Silicone Sleeve Diameter: .187in x .375in
- Length: 15.5 ft, 200in (508cm)
- Free of natural latex and DEHP
- No dripping, bubbles - clear ultrasound view
- CE Marked, boxes of 10 or 20



OR CONFIGURATIONS

Designed Specifically for Vein Ablation (Hospital OR, Surgery Center, or In-office Setting)



Vein Valet
(Surgeon Preferred)



IV Pole & Bracket
Sold separately

HK PATENTED SUPER ABSORBENT PADS

HK Super Absorbent Post-op Pads

(US Patent No. 6,162,960)

- Large pad holds 1L/1000mL fluid
- Fluid wicks into pad
- Provides a dry surface to the patient
- Surface stays dry without leaking
- Minimizes bruising
- CE Marked, 48 per case



PD-XS (12"x4.75")
PD-S (12"x9.5") or SPD-S (sterile)
PD-M (12"x15.75")
PD-L (12"x19.5") or SPD-L (sterile)
PD-XL (12"x28") or SPD-XL (sterile)

Super Absorbent OR Table Sheets

- Keep patients dry during procedures without needing to change out pads.
- Typically only 1 pad per surgery needed.
- CE Marked, 20 per case

SPD-OR3171 (31"x71") sterile
PD-OR3148 (31"x48")
PD-OR3171 (31"x71")



HK INFILTRATION CANNULAS

Minimize bruising and avoid laceration of blood vessels, laser, or sheath

- Multiple sizes available.
- 18 gauge by 20 cm is preferred by surgeons for vein ablation.
- Compatible with luer lock tubing and HK Infiltration Handles.
- Body of the cannulas has perforations in a spiral pattern
- Luer lock hub
- Made from 303 stainless steel
- Custom length/sizes available
- Autoclavable, reusable



We are happy to share HK customer feedback on how they specifically use HK cannulas.

HK CONNECTORS

Secure your tubing with the HK Connector!

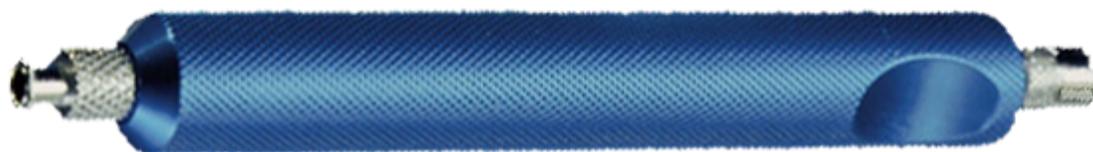


- HK Connector holds luer lock infiltration tubing secure on a procedure tray.
- Keeps tubing stable in the sterile field while not in use.
- Helps avoid dropping, falling, or leaking tubing.

HK INFILTRATION HANDLES

For use with any luer-lock
cannula or spinal needle

Infiltration Handle - Small (IHSS) 6.5" Length, 0.75" Diameter



Infiltration Handle - Large (IHSL) 6.5" Length, 1" Diameter



- Aluminum body
- Autoclavable, reusable
- Stainless-steel luer-lock fittings on proximal and distal ends
- Allows for attachment of all standard cannulas or luer-lock spinal needles and tubing

Use safety labels on every bag of TLA

HK	Safety Labels	Bag #	
for Subcutaneous Tumescence Infiltration Only			
Lidocaine	250 mg	500 mg	750 mg
	1000 mg	1250 mg	1500 mg
			_____mg
<hr/>			
Epinephrine	0.5 mg	0.65 mg	
	1 mg	1.5 mg	_____mg
<hr/>			
Na Bicarb 10 meq	In 1000 ml	0.9% NaCl	Lactated Ringer's
<hr/>		<hr/>	
Patient's name		Date	
hksurgical.com 1-800-909-0060			

Avoid inadvertent IV delivery of Tumescence Lidocaine Anesthesia (TLA) with HK Surgical Safety Labels.

CONSTANT TEMPERATURE WATER BATH

Safely warm your saline/TLA before infiltration



- Warm TLA is recommended over cold or room temperature to avoid mild hypothermia.
- The CTWB helps retain a consistent temperature for your IV solution.
- Also makes your patient more comfortable when receiving IV fluids.

ABOUT HK SURGICAL



HK Surgical is the recognized leader in the development, distribution, and marketing of superior tumescent equipment and supplies located in San Clemente, CA.

HK Surgical was founded in 1998 by Dr. Jeffrey Klein, the inventor of Tumescent Lidocaine Anesthesia (TLA) and designer of the Klein Infiltration Pump, now known worldwide for tumescent delivery. Tumescent Anesthesia not only revolutionize liposuction but also many other procedures.

HK Surgical manufactures and distributes a wide array of products not only for liposuction and vascular procedures but any procedure where TLA would be beneficial. We have multiple patented products that cannot be found anywhere else in the world.

Our experienced staff is committed to earning and maintaining your trust by providing quality products and exceptional customer service. Our goal is to build a lasting partnership and provide you with the resources for success, the HK Way!

HK Surgical Sales & Service Team

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