



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!**



- Tumescence 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.