Shock Wave Control Unit

- **Electrical Features:**
  - **Voltage:** 230/(110) Vac (±10%), single phase
  - **Frequency:** 50/(60) Hz
  - **Line Power Supply Stabilization:** Automatic
  - **Line resistance:** < 0.6 Ohm

- **Monoblock:**
  - **Anode Type:** Stationary
  - **Focal Size:** 0.6 x 0.6 mm
  - **Max Applicable Power (for 1 Sec):** 770 W for SF
  - **Max Continuous Anode Dissipation:** 230 W
  - **Total Filtration:** 2.7 mm Al

- **Image Intensifier:**
  - **9" (9"/6"/4") or 6" (6"/4")**

- **Input Field Dimensions:**
  - **215/160/120 cm**

- **Grid For Fluoroscopy:**
  - **Focusing:** 80 cm

- **Fluoroscopy Features:**
  - **Max Power:** 0.44 kW
  - **kV Range:** 40 ÷ 110 kV (1 kV step)
  - **Current in Fluoroscopy:** 0.2 ÷ 3.5 mA range / 4 mA (Snapshot)
  - **H.V. Driving:** 1GBT driven inverter
  - **Operating Frequency:** 40kHz
  - **Filtration:** 2.7 mm Al
  - **Computerized Zoom:** to 200%

- **CCD TV Chain:**
  - **Camera:** With 470,000 pixels CCD sensor
  - **Scanning System:** CCIR/625/50 standard (EIA 525/60 optional)
  - **LCD Flat Monitor:** 15" standard (17" optional)

- **Regulatory Compliance:**

* Data subject to change without notice

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**The New Extracorporeal Shock Wave Lithotripsy System**

**About Medispec**

Medispec Inc., founded in 1990, develops, manufactures and markets high-tech medical equipment for the fields of Urology, Uro-Gynecology and Orthopedics. Medispec provides advanced, high quality products that comply with the worldwide standards of today's marketplace. Medispec has a proven track record of delivering high performance Shock Wave Therapy products to international medical institutions, accompanied by on-time delivery and a reliable service. We customize solutions that meet our client’s specific medical and business requirements, ensuring that they receive the highest quality, reliability and cost efficiencies available.

**E0000**

**Redefining stone treatment**

**The New Extracorporeal Shock Wave Lithotripsy System**

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**Shock Wave Control Unit**

- **Shock Wave System:** Electrohydraulic spark gap
- **Main Supply:** 115/230V single phase (40-60 Hz)
- **Dimensions:** Height: 58" Width: 31.5" Depth: 33.5"
- **Weight:** 290 (132 kg)
- **Focal Point Depth:** 135 mm - 170 mm
- **Focal Area:** 60 mm x 13 mm (± 50% laterally)
- **Spark Voltage:** 15 - 22.5 kV
- **Pulse Control:** Non-synchronized at 60 ppm or 96 ppm

- **4-Axis Multipurpose Treatment Table**
  - **Main Supply:** 115/230V AC
  - **Tabletop Dimensions:** Height: 22" - 48.2" Width: 31.1" Depth: 33.5"
  - **Base Dimensions:** Width: 31.7" Height: 46.6" Length: 46.6" (217.4" extended)
  - **Weight:** 220 (104 kg)
  - **Movements:** Height: 7.8" X axis (head-to-toe): 4" Y axis (side-to-side): 4" Trendelenburg: Reverse Trendelenburg 4°
  - **Max Load:** 400 pounds distributed load (181 kg)

**Medispec’s Visionspec™ X-Ray System**

- **Electrical/Features:**
  - **Voltage:** 250/110 Vac (±10%), single phase
  - **Frequency:** 50/60 Hz
  - **Line Power Supply Stabilization:** Automatic
  - **Monoblock:**
    - **Anode Type:** Stationary
    - **Focal Size:** 6 x 13 mm
  - **Max Applicable Power (for 1 Sec):** 770 W for SF
  - **Max Continuous Anode Dissipation:** 230 W
  - **Image Intensifier:**
    - **Input Field Dimensions:** 215/160/120 cm
    - **Focal Size:** 6 x 13 mm
  - **Fluoroscopy Features:**
    - **Max Power:** 0.44 kW
    - **kV Range:** 40 ÷ 110 kV (1 kV step)
    - **Current in Fluoroscopy:** 0.2 ÷ 3.5 mA range / 4 mA (Snapshot)
    - **Operating Frequency:** 40kHz
  - **CADD TV Chain:**
    - **Carbon Fiber:** With 470,000 pixels CCD sensor
    - **Scanning System:** CCIR/625/50 standard (EIA 525/60 optional)
    - **LCD Flat Monitor:** 15" standard (17" optional)

**Treatment Table Configuration Alternatives**

- **The standard 4-axis table can be upgraded to a 5-axis endourology table, providing more flexible positioning. Medispec’s tables are designed for lithotripsy and auxiliary endourology procedures. Positioning the patient is easy, with motor-driven Trendelenburg tilt, horizontal and vertical motion capabilities, and remote control head and foot switches. In addition, the 5-axis endourology table has a weight capacity of 450 lbs (204 kg). A variety of table accessories are available for both the 4 and 5 axis tables, including drain bag holders, leg stirrups and arm boards.**
Medispec E3000

High performance lithotripsy in a new, compact design

The Medispec E3000 is an Extracorporeal Shock Wave Lithotriptor that effectively treats renal and ureteral calculi. This lithotripsy system offers the perfect combination of clinical performance, flexibility and affordability.

Excellent Clinical Performance with Medispec’s Large Focal Zone (Zone Breaker™) Technology:
The Medispec E3000 combines one of the highest pressures with one of the largest focal zones in the industry, providing the most effective lithotripsy system available today. Medispec’s patented large focal zone (Zone Breaker™) covers a larger surface area than other systems, so it is more likely to hit the stone, increasing speed and efficiency of treatment. The high pressure produces powerful shocks that quickly disintegrate the stone.

The E3000 has provided superior performance in clinical tests. It consistently provides a high stone-free rate and a low retreatment rate.

Modularity & Versatility:
The newly designed E3000 is a compact, modular unit that can fit into almost any clinical environment, including hospitals, outpatient centers, and mobile environments. It is lightweight and has been constructed to endure the rigors of frequent setup and dismantling. The components of the system can be stored in a small area and quickly assembled as needed. The E3000 does not require any special wiring or plumbing and can be plugged into a standard outlet.

High Voltage Generator with New Solid State Power Supply Technology (SSPS)™:
The high voltage generator is the heart of the E3000 system. The generator is based on spark-gap technology. Spark-gap generators create shock waves in water through an electrode placed in an ellipsoid reflector. Medispec’s new Solid State Power Supply Technology (SSPS)™ enables higher uniformity of energy being delivered to the stone for maximum breaking efficiency and speed.

Improved Performance:
- Increased membrane coupling pressure improves the shock wave transmission to the stone.
- New Solid State Power Supply Technology (SSPS)™ provides uniform shock waves that increase treatment efficacy.
- Medispec’s large focal zone technology (Zone Breaker™) and high pressure deliver accurate and powerful stone fragmentation.

Centralized Control Panel:
- The shock wave control unit and table are controlled through the centralized control panel.
- The easily accessible control panel is located directly on the shock wave control unit.
- The treatment table incorporates a separate hand-held remote control. The table can be used for other applications without being connected to the shock wave control unit.

Compact, User-Friendly Design:
- The newly redesigned E3000 is compact and can be easily transported and stored in a small space when not in use.
- Patient positioning is improved, increasing patient comfort and user accessibility to the patient.
- Machine parts are easily accessible for routine maintenance and can be changed within seconds.
- Diagnostic LEDs indicate when maintenance is required and aids in troubleshooting.

4-Axis Multifunctional Table:
The E3000 comes standard with a detachable 4-axis, multifunctional table. This motorized table has a cutout on both sides to enable easy patient positioning. The table is made of carbon fiber for obstruction-free imaging and can be used for a variety of endourology procedures. The treatment table has a weight capacity of 400 lbs (181 kg), one of the highest in the industry.

Medispec’s X-Ray System
The E3000 can be used in conjunction with most standard C-Arm imaging systems, or with Medispec’s innovative X-Ray system. It offers a high quality digital image as well as simplicity in operation and maintenance. The Visionspec™ is Windows based, has advanced features for image processing and includes data storage of 1000 images. It comes with a standard configuration image Interleaver of 8K x 8K.

Ultrasound System (optional):
The E3000 can be used in conjunction with most standard ultrasound systems available, so you can configure the E3000 system with existing ultrasound equipment.

Diagnostic ultrasound features such as Auto-Localization of the stone and Multi-Screen patient presentation.

Diagnostic Ultrasound System (optional)
The E3000 comes standard with a detachable 4-axis, multifunctional table. This motorized table has a cutout on both sides to enable easy patient positioning. The table is made of carbon fiber for obstruction-free imaging and can be used for a variety of endourology procedures. The treatment table has a weight capacity of 400 lbs (181 kg), one of the highest in the industry.

4-Axis Multifunctional Table:
The E3000 comes standard with a detachable 4-axis, multifunctional table. This motorized table has a cutout on both sides to enable easy patient positioning. The table is made of carbon fiber for obstruction-free imaging and can be used for a variety of endourology procedures. The treatment table has a weight capacity of 400 lbs (181 kg), one of the highest in the industry.

4-Axis Multifunctional Table:
The E3000 comes standard with a detachable 4-axis, multifunctional table. This motorized table has a cutout on both sides to enable easy patient positioning. The treatment table is made of carbon fiber for obstruction-free imaging and can be used for a variety of endourology procedures. The treatment table has a weight capacity of 400 lbs (181 kg), one of the highest in the industry.

4-Axis Multifunctional Table:
The E3000 comes standard with a detachable 4-axis, multifunctional table. This motorized table has a cutout on both sides to enable easy patient positioning. The treatment table is made of carbon fiber for obstruction-free imaging and can be used for a variety of endourology procedures. The treatment table has a weight capacity of 400 lbs (181 kg), one of the highest in the industry.

4-Axis Multifunctional Table:
The E3000 comes standard with a detachable 4-axis, multifunctional table. This motorized table has a cutout on both sides to enable easy patient positioning. The treatment table is made of carbon fiber for obstruction-free imaging and can be used for a variety of endourology procedures. The treatment table has a weight capacity of 400 lbs (181 kg), one of the highest in the industry.