

STONELITH[®]

EXTRACORPOREAL SHOCK WAVE LITHOTRIPSY AND THERAPY SYSTEM

LITHOARC

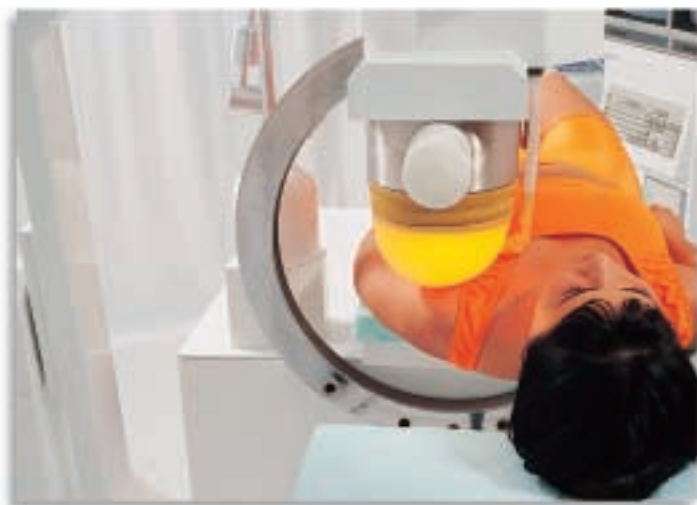


Advanced Medical Systems

The standard model of the Stonelith Version 5 ESWL comes complete with a stable ellipsoid. However, the LITHO3PTER can be provided with a reflector that rotates inside a C-shaped mechanical device. This major model is known as LITHOARC. The basic unit includes a swing-away U-arm along with the integrated treatment table. However, like the LITHO3PTER, the LITHOARC can also be provided without the X-ray unit attached.



The LITHOARC provides for the motorized movement of the ellipsoid in a semi-circle track. This flexibility provides the user with the ability to more accurately locate the stone's position, regardless of where it is in the urinary tract. By allowing the operator to locate even the traditionally hard-to-find stones, the doctor is allowed the opportunity to expand the lithotripsy procedure's practical applications.



In order to more fully appreciate the versatility of the LITHOARC, the system must be accompanied by spherical ultrasound attachment for ultrasound localization.



An important added application of the LITHOARC is for Extracorporeal Shock Wave Therapy, or ESWT. The therapeutic use of electro-hydraulic shock wave pulses is a rapidly expanding utilization of machines traditionally limited to stone-breaking procedures. The flexibility of the LITHOARC's ellipsoid allows for comfortable therapy in a variety of different locations.



LITHOARC Specifications

ESWL Unit

Energy source	Electro-hydraulic spark gap system
Focusing	Ellipsoidal
Patient coupling	Dry patient coupling, water cushion with automatic pressure stabilization, elastic and soft hypoallergenic membrane
Localization	X-ray fluoroscopy and/or ultrasound system
Operating voltage	7.5 to 24+ kV, adjustable
Ellipsoid aperture	Ø 220 mm (8.66")
Focal distance	130 mm (5.11")
Focal pressure	0 to 1200 bar
Water cushion capacity	10.5 lt (2.77 usgallon)
Water tank capacity	13 lt (3.43 usgallon)
Height	920 mm (36.5")
Length	1070 mm (42.5")
Width (wheel base)	780 mm (31")
Weight	300 kg (661 lbs) with integrated treatment table and U-arm 250 kg (551 lbs) with integrated treatment table only

Treatment Table

Patient surface	190 cm x 50 cm (75" x 20")
Height adjustment	30 cm (12")
Longitudinal adjustment	15 cm (6") ; 20 cm (8"), optional
Transverse adjustment	15 cm (6") ; 20 cm (8"), optional
Patient size (max)	160 kg (353 lbs)
Weight	150 kg (331 lbs)

U-arm X-ray

Tube power rating	5 kW @ 110 kVp DC
X-ray generator type	Half-wave silicium rectified; high frequency generator, optional
Power rating	6.5 kW @ 110 kVp - 110 mA
kV range	40 - 110 kV
mA range	0 - 3.5 mA
Image Intensifier	6" (17 cm)
Monochrome Monitor	17"; CCIR standard; medical grade; 850+ TV line; infinitely extendable; contrast, brightness, horizontal and vertical hold adjustments

Power Requirements

Power voltage	220V AC/50 Hz or 110 AC/60 Hz, 3kVA, single phase
Power voltage fluctuation	± 10%
Grounding	100V Ω or less in grounding resistance
Electrical isolation	Transformer protection, current leakage interrupter
Safety standard	IEC 601.1 class 1, type B
Quality standard	ISO 9001

Environmental Conditions

Operating temperature	10°C to 30°C (50°F to 86°F)
Humidity	35% to 85%
Non-operating temperature	-15°C to +40°C (5°F to + 104°F)
Space requirement	4 m x 3 m (13' x 10')

Due to continued product innovation, specifications may change without notice.



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