

Technical Specifications R-EVO smart^E

PARAMETERS SPECIFICATION

Manufacturer	OPTIKON 2000 S.p.A. via del Casale di Settebagni, 13 - 00138 Rome - Italy
Model	R-Evo smart ^E E
Ref.	111009
Regulatory compliance	93/42/EEC Medical Device Directive (MDD)
Technical standards	EN60601-1; EN60601-1-2; EN60601-2-2; EN80601-2-58

ENVIRONMENTAL SPECIFICATIONS

Storage and transport	temperature -10°C - +70°C, humidity 10% -100% (non-condensing), atmospheric pressure 500 - 1060 hPa
Operation	temperature range +10°C - +35°C, humidity 30%-75%, atmospheric pressure 900 - 1060 hPa (for maximum vacuum); 810 - 1060 hPa (for vacuum up to 500 mmHg)

ELECTRICAL SPECIFICATIONS

Input voltage	100-240 VAC
Frequency	50/60 Hz
Required power	200 VA
Fuses	100-240 Volt: T3.15AH 250V

IRRIGATION

Fluid delivery	gravity fed (determined by the height of irrigation source) or microprocessor-controlled active infusion
Valves	solenoid driven pinch valve
Control	system pedal

ASPIRATION

Aspiration pump types	peristaltic
Default vacuum level	user programmable
Available vacuum range	5 - 650 mmHg
Default flow rate	user programmable
Available flow rate range	1 - 65 cc/min
Vacuum rise time	adjustable on 25 levels (0.5s - 12s)
Linear aspiration mode	linear aspiration control, through system pedal, (for vacuum and/or flow) from zero to maximum user programmable
Safety device	vacuum sensor, measures the vacuum in the aspiration line
Control	system pedal

ANTERIOR VITRECTOMY

Handpiece type	pneumatically powered guillotine cutter
Cutting mode	reciprocating motion
Default cutting rate	user programmable
Available cutting rate	60 - 1,000 cuts/min 120 - 2,000 cuts/min with Twedge™ technology
Actuating medium	pressurized air from integrated dry air compressor
Linear cutting mode	linear cutting rate from 0 to preset controlled via system pedal
Control	system pedal

DIATHERMY

Type	bipolar generator - the generator stops when the RF power supply is not needed
Operating frequency	2 MHz
Nominal power	9 W (200 Ohm load)
No load max. voltage	100 V
Default power	user programmable
Available power	5% - 100%
Linear mode	allows the linear control of the DIATHERMY power via system pedal
Handpiece type	bipolar microforceps, slim stat pencil eraser, intraocular diathermy pencils
Diathermy cable	two conductors, 26 gauges, 75 Ohm, 200V max, steam autoclavable; use only the original diathermy cable
Control	system pedal

PHACOEMULSIFIER

Handpiece type	piezoelectric available with four or six crystals
Frequency	approx. 40 kHz
Tip stroke	0 - 100 µm
Power control	panel or linear control of U/S power via system pedal
U/S mode	linear or panel; continuous, pulsed, single burst, multiple burst, continuous burst
Occlusion mode	Autolimit, HD pulse
Timer U/S	0:00 - 9:59 min - equivalent phaco time display

EQUIPMENT CLASSIFICATION ACCORDING TO IEC 60601-1

Type of protection against electric shock	Class I
Degree of protection against electric shock:	
Diathermy	Type BF, floating at high and low frequencies
U/S	Type B
Vitreotomy	Type BF
Degree of protection against harmful water ingress (unit)	IPX0
Degree of protection against harmful water ingress (pedal)	IPX8
Degree of safety of application in the presence of a flammable anaesthetic mixture	not suitable

W x D x H:
43 x 50 x 35 cm

W x D x H (with trolley):
57 x 74 x 152 cm

Weight:
17 Kg (60 kg with trolley and pedal)



NOTE:

- 1) The weight and dimensions shown are approximate.
- 2) Specifications are subject to change without notice.