



**OSSEODOC - Simple and practical controls
with sterilisable micromotor**

Bien Air
SWITZERLAND

OSSEODOC - the new control module from Bien-Air

Compact, robust and stable, the new OSSEODOC control for orthopaedic microsurgery is practical and efficient. Its motor has a standard ISO type "E" coupling which enables the operator to use a wide range of hand tools, micro-saws and other surgical instruments. Push-button selection of 4 motor speed ranges, two directions of rotation, two irrigation options and 4 flow rates for the peristaltic pump. Most of these functions are available using the foot control. Pilot lamps and audible signals indicate the functions activated.

Details that count:

- Convenient footpedal for functions with representative and standardised symbols.
- Footpedal and 2 pushbuttons for variable speed operation: on the right, select from a range of 4 speeds and also select the direction of motor rotation; on the left, control the flow rate of the peristaltic pump and ON/OFF.
- The brushless BASCH motor can be autoclaved with its cable. It operates smoothly without vibration in both directions of rotation through a speed range extending from 500 to 40 000 rpm. Cooled by self-ventilation.
- An acoustic signal warns when the motor is rotating anticlockwise.
- No risk of burns due to monitoring of motor temperature. Automatic stop if temperature rises above limit, with LED display on OSSEODOC panel.
- Irrigation flow rate with 4 levels can be adjusted using the control panel while the ranges of 15 to 65 ml/min or 30 to 130 ml/min can be controlled using the mechanical selector.
- Irrigation function on demand using the pedal "Kick down" function.
- OSSEODOC product range with or without peristaltic pump.
- Peristaltic pump kit available separately. Easy for the user to assemble.
- Control, motor and cable provide the assured electromagnetic protection required in medical standards 93/42/EEC and CEI 601-1-2.

The OSSEODOC product range comprises:

An electronic table control unit with or without peristaltic pump, a network cable, a BASCH motor with cable, a footpedal, 1 sterilisable holder for hand tools. Additional equipment for the version with pump: a power source and 10 single irrigation lines together with 10 retaining clips (for the sterile tubing).



Multifunction pedal



With or without integral peristaltic pump



Sterilisable BASCH motor



Peristaltic pump selector



Peristaltic pump synchronised with the motor



Reversible direction of motor rotation



40'000

Rotation speed: 500 to 40000 rpm

20'000

Rotation speed: 500 to 20000 rpm

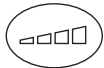
15'000

Rotation speed: 500 to 15000 rpm

7'000

Rotation speed: 500 to 7000 rpm

Control of flow rate for physiological liquid



Motor connector



Motor overheating signal



**Technical characteristics
of the OSSEODOC product range**



OSSEODOC

Voltage	230 or 115 Vac
Power supply to motor	1 quick-release push-pull connector on control unit / 24 Vdc for BASCH motor
Insulation class	I, type B
Protection class	IP 40 (protection against introduction of objects wider than > 1mm)
Dimensions (LxPxH)	261 x 300 x 110 mm (height with power source 520 mm)
Weight	5 kg with pump / 4,100 kg without pump

Additional equipment for version with integral pump

Pump flow rate	Adjustable from 30 to 130 ml/min. or from 15 to 65 ml/min. (4x4 values for irrigation flow rate)
Power source	Stainless steel, height 450 mm
Irrigation tubes	Silicon tube, internal diameter 2.4 mm / external diameter 5.6 mm. with tap.
Retaining clips	Set of 10 clips for irrigation lines



Multifunction pedal

Seal integrity	Sealed : IPx8 acc. to CEI 529 and APG and in accordance with EN 60601-1
Functions	Controls for: start / stop functions, motor forward/reverse selection, speed control selection and operation of peristaltic pump.
Dimensions/weight	(lpxh) 160 x 170 x 55 mm / 0.830 kg



BASCH motor

Input power rating	0-24 Vdc 5 A max.
Mechanical power rating	62 W with OSSEODOC at 20 000 rpm and 24 Vdc
Rotational speed	500 to 40 000 rpm with OSSEODOC, 4 speed ranges. Self-ventilated
Attachment	ISO front-end "nose" coupling, type E Standard
Dimensions	Diameter 21 mm, length 100 mm, ISO "nose" included
Weight	110 g, without cable
Motor cable	Push-pull type on side of OSSEODOC, stainless-steel nut, colour black, length 3 m
Sterilisation	Motor and cable are sterilisable in autoclave

This company reserves the right to make model modifications and technical changes.



OSSEODOC with integral peristaltic pump

Set comprises:

- 1 OSSEODOC control for 230 Vac/115 Vac REF 1600331-001
 - 1 mains power cable, Switzerland REF 1300065-001
 - 1 mains power cable, Europe REF 1300066-001
- With integral peristaltic pump

With:

- 1 sterilisable BASCH micromotor REF 1600076-001
- 1 black cable for micromotor REF 1600342-001
- 1 sealed footpedal with 2 pushbuttons, multifunctional REF 1600407-001
- 1 Irrigation stand REF 1500017-001
- Set of 10 Irrigation lines REF 1100037-010
- Set of 10 retaining clips REF 1300064-010
- 1 sterilisable handpiece holder REF 1000007-001

Set 230 Vac / 115 Vac

REF 1700168-001

OSSEODOC without integral peristaltic pump



Set comprises:

- 1 OSSEODOC control for 230 Vac/115 Vac REF 1600332-001
 - 1 mains power cable, Switzerland REF 1300065-001
 - 1 mains power cable, Europe REF 1300066-001
- Without integral pump

With:

- 1 sterilisable BASCH micromotor REF 1600076-001
- 1 black cable for micromotor REF 1600342-001
- 1 sealed footpedal with 2 pushbuttons, multifunctional REF 1600407-001
- 1 sterilisable handpiece holder REF 1000007-001

Set 230 Vac / 115 Vac

REF 1700169-001

Peristaltic pump kit



To be integrated in OSSEODOC with:

- 1 Irrigation stand REF 1500017-001
- Set of 10 Irrigation lines REF 1100037-010
- Set of 10 retaining clips REF 1300064-010

REF 1700170-001

Bien-Air Surgery SA
Länggasse 60
Case postale 6008
CH-2500 Bienne 6
Switzerland
Tél.+41(0)32 344 64 40
Fax +41(0)32 344 64 45
office.surgery@bienair.com

Bien-Air
Deutschland GmbH
Surgery
Jechtinger Strasse 11
79111 Freiburg, Deutschland
Tel. +49 (0)761 45 57 40
Fax+49 (0)761 47 47 28
ba-d@bienair.com

Bien-Air España, SA
Surgery
Villarroel, 7 pral. 2a
08011 Barcelona, España
Tel. (+34) 934 25 30 40
Fax (+34) 934 23 98 60
ba-e@bienair.com

Bien-Air USA, Inc.
Surgery
17880 Skypark Circle
Suite 140
Irvine, CA 92614 USA
Phone 1-800-433-BIEN
Phone 949-477-6050
Fax 949-477-6051
ba-usa@bienair.com

Bien-Air France Sarl
Surgery
131, Boulevard Péreire
75017 Paris, France
Tel. +33 (0)1 47 64 13 49
Fax +33 (0)1 40 54 91 43
ba-f@bienair.com

Bien-Air on Internet:
www.bienair.com
www.bienairsurgery.com

Bien-Air Italia s.r.l.
Surgery
Via Vaina 3
20122 Milano, Italia
Tel. +39 (02) 58 32 12 51/52/54
Fax+39 (02) 58 32 12 53
ba-i@bienair.com

Bien-Air UK Limited
Surgery
63, The Street
Capel, Surrey RH5 5JZ, England
Tel. +44 (0)1306 711 303
+44 (0)1306 712 505
Fax+44 (0)1306 711 444
ba-uk@bienair.com

Bien-Air Asia Ltd.
Surgery
Nishi-Ikebukuro
Daiichi-Seimei Bldg. 10F
2-40-12 Ikebukuro, Toshimaku
Tokyo, 171-0014, Japan
ビエン・エア・アジア株式会社
〒171-0014
東京都豊島区池袋2-40-12
西池袋第一生命ビルディング10F
Tel. +81 (3) 5954-7661
Fax+81 (3) 5954-7660
ba-asia@bienair.com

Beijing Bien-Air
Medical Instrument
Technology Service Co. Ltd.
Room 2106, The Exchange Beijing,
No 118 Jian Guo Lu Yi,
Chao Yang District,
Beijing 100022, China
北京彼岸医疗器械
技术服务有限公司
北京市朝阳区建国路
乙118号招商局中心
京汇大厦2106室
Tel. +86 10 6567 0651
Fax +86 10 6567 8047
ba-beijing@bienair.com

Bien Air

SWITZERLAND