

Bien-Air Dental SA
Länggasse 60
Case postale 6008
2500 Bienne 6, Switzerland
Tel. +41 (0)32 344 64 64
Fax +41 (0)32 344 64 91
dental@bienair.com

Bien-Air
Deutschland GmbH
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
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.
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
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

Internet:
www.bienair.com

Bien-Air Italia s.r.l.
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
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.
Nishi-Ikebukuro
Daichi-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
Dental

Turbines, couplings & hoses

Bien-Air turbines

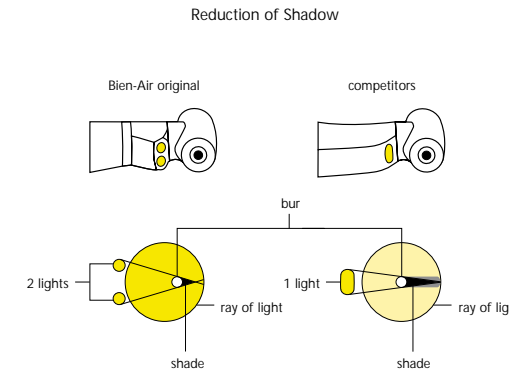
3-spray turbines, with or without light.
 Their many characteristic ergonomic and functional details, such as the Unifix quick-connect coupling, glass rods for optimum lighting, three separate air/water sprays, ceramic ball bearings, the anti-retraction valve, and their new pearl grip profile offering easy maintenance, make these instruments essential items of your dental surgery.

Eolia turbine - 1-spray version, without light.
 This turbine will meet the needs of practitioners seeking a light and powerful turbine, one which is rapidly interchangeable due to its economical new coupling with anti-retraction valve. The new Eolia turbine is equipped with all the essential functions of a modern, reliable instrument, offering Swiss quality at a competitive price.

The turbines are machined in materials specially designed to resist repeated sterilisation. Turbine sterilisation in autoclave up to 134°C (275°F). Time required depending on local legislation in force.

Optimum lighting

The two monobloc optical glass rods afford excellent vision with minimum shadow.

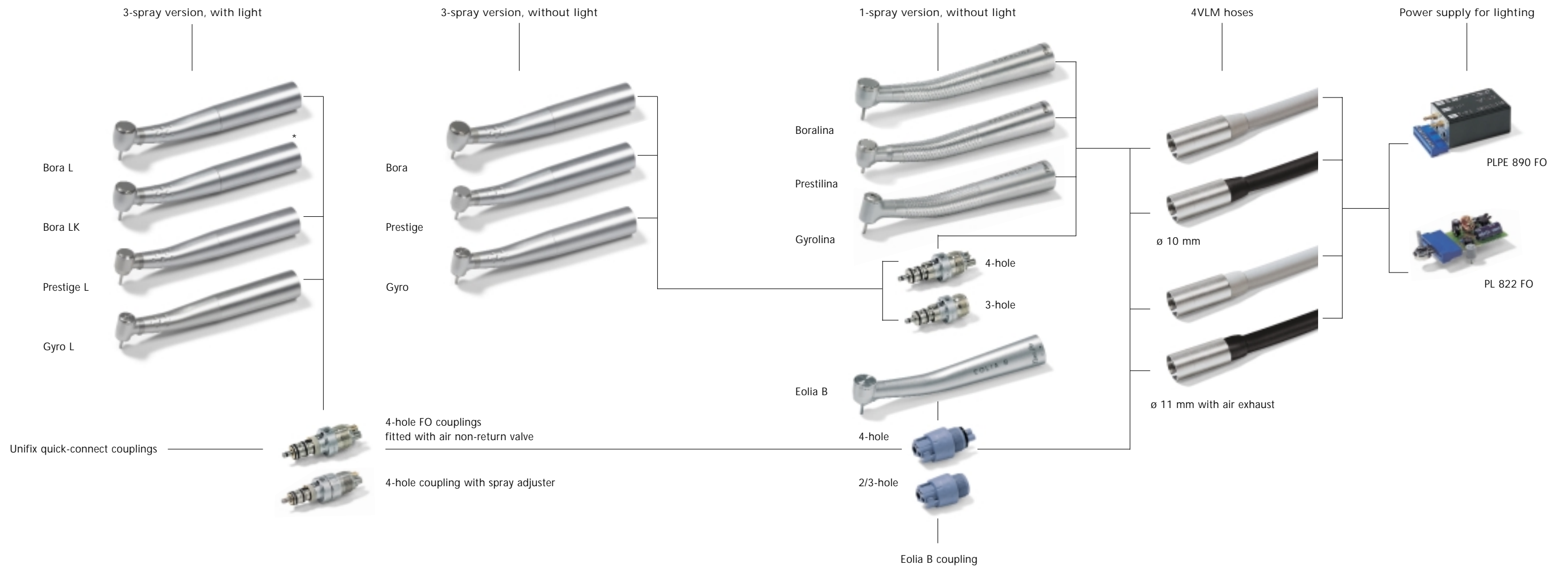


Unifix coupling

Bien-Air has been manufacturing Unifix couplings for a quarter century; these products are used and appreciated throughout the world. Now, all Bien-Air's top of the range turbines are fitted with them. The Unifix coupling enables smooth movement through 360° and allows quick connection. The 4-hole light version is fitted with an air non-return valve. It is also available with a spray flow adjuster. The Unifix couplings cannot be sterilised.

Power supply for lighting

Due to their small size, these electrical systems for turbines can easily be incorporated in air-driven and electrically controlled dental units. PLPE 890 FO will power two separate outputs on air-driven units with optional 10 sec. time delay. The PL 822 FO will power electrically controlled units.

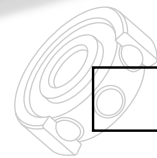


* compatible with MULTiflex® Kavø®

Bora

Ball-bearing turbines

Boralina



Long life

Ceramic ball bearings

Bora with and without light - 3 sprays

With its new pearl grip profile offering easy maintenance and its ceramic ball bearings, the Bora turbine is built to last. Already renowned for its ruggedness, Bora now offers longer life, increased power and even quieter operation thanks to the new ceramic ball bearings. The triple-spray diffuser with three separate air-water ports ensures optimum bur cooling. The large anti-heat push button facilitates fast bur change. The monobloc optical glass rods and the anti-retraction valve on the water supply are designed to resist numerous sterilisation operations. Speeds up to 306,000 rpm, recommended air pressure 2.5 to 2.7 bar. Bora LK, all the advantages of the Bora L for MULTiflex® Kavo® coupling. Required air pressure 3 bar.



Boralina without light - 1 spray

The major advantages of the Boralina are undoubtedly its extremely rugged rotor and its Unifix quick-connect coupling, which enables instruments to be quickly interchanged. The large push button facilitates fast bur change. Speeds up to 310,000 rpm, required air pressure 2.5 to 2.7 bar.



Technical data

Bora L, Bora LK and Bora turbines	
Type	Ceramic ball-bearing turbine
	3 sprays
Bora L / Bora LK	With light, anti-retraction valve in the handle, monobloc optical glass rods
REF 1700189-001	Bora L with electric-powered 4-hole Unifix with anti-retraction valve on the air supply
REF 1600382-001	Bora L without Unifix
REF 1600155-001	Bora LK for MULTiflex® Kavo® coupling
Bora	Without light, anti-retraction valve in the handle
REF 1700187-001	Bora with 3-hole Unifix
REF 1700188-001	Bora with 4-hole Unifix
REF 1600381-001	Bora without Unifix
General information	
Speed	Up to 306,000 rpm
Spray	3 separate air and water ports
Air Pressure	Bora/Bora L 2.5 to 2.7 / Bora LK 3 bar required
Connection	Unifix quick-connect coupling, rotating over 360°
Hoses	4VLM hoses with or without air exhaust or standard hoses
Bur chuck	ø 1.60 mm, ISO Standard 1797
Bur locking mech.	Push button
Cleaning	With Spraynet from Bien-Air, universal spray for cleaning turbines, couplings and hoses
Lubrication	With Lubrimed medical grease or the Lubrifluid spray from Bien-Air
Turbine sterilisation	In autoclave up to 134° C (275° F)

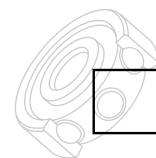
Boralina Turbine	
Type	Ball-bearing turbine, without light
	1 spray
REF 1700200-001	Boralina with 3-hole Unifix
REF 1700201-001	Boralina with 4-hole Unifix
REF 1600373-001	Boralina without Unifix
General information	
Speed	Up to 310,000 rpm
Spray	Single
Air pressure	2.5 to 2.7 bar required
Connection	Unifix quick-connect coupling, rotating over 360°
Hoses	4VLM hoses with or without air exhaust or standard hoses
Bur chuck	ø 1.60 mm, ISO Standard 1797
Bur locking mech.	Push button
Cleaning	With Spraynet from Bien-Air, universal spray for cleaning turbines, couplings and hoses
Lubrication	With Lubrimed medical grease or the Lubrifluid spray from Bien-Air
Turbine sterilisation	In autoclave up to 134° C (275° F)

* Bora LK - compatible with MULTiflex® Kavo®

Prestige

Ball-bearing turbines

Prestilina



Long life

Ceramic ball bearings



Prestige with and without light - 3 sprays

Prestige is fitted with a small-sized head specially designed for very delicate work and where access is difficult. Constantly improved, it now offers a very long, reliable life and is even quieter. Its new pearl grip profile facilitates maintenance. The triple-spray diffuser, with three separate air and water ports, ensures optimum bur cooling. The anti-heat bur locking mechanism, monobloc optical glass rods and the water anti-retraction valve are designed to withstand multiple sterilisation. Speed of rotation up to 315,000 rpm on ceramic ball bearings; required air pressure 3.25 bar.



Prestilina without light - 1 spray

Extremely easy to handle, with a small-sized head, Prestilina enables access to difficult areas. The Unifix quick-connect coupling allows fast change of instruments and rotation through 360° allows considerably improved freedom of movement. Push button bur change mechanism, speed up to 400,000 rpm. Required air pressure 2.2 to 2.5 bar.



Technical data

Prestige L and Prestige Turbines

Type	Ceramic ball-bearing turbine
	3 sprays
Prestige L	With light, anti-retraction valve in the handle, monobloc optical glass rods
REF 1700184-001	Prestige L with electrical 4-hole Unifix
REF 1600380-001	Prestige L without Unifix
Prestige	Without light, anti-retraction valve in the handle
REF 1700185-001	Prestige with 3-hole Unifix
REF 1700186-001	Prestige with 4-hole Unifix
REF 1600379-001	Prestige without Unifix
General information	
Speed	Up to 315,000 rpm
Spray	3 separate air and water ports
Air pressure	3.25 bar required
Connection	Unifix quick-connect coupling, rotating over 360°
Hoses	4VLM hoses with or without air exhaust or standard hoses
Bur chuck	ø 1.60 mm, ISO Standard 1797
Bur locking mech.	Push button
Cleaning	With Spraynet from Bien-Air, universal spray for cleaning turbines, couplings and hoses
Lubrication	With Lubrimed medical grease or the Lubrifluid spray from Bien-Air
Turbine sterilisation	In autoclave up to 134° C (275° F)

Prestilina Turbine

Type	Ball-bearing turbine, without light
	1 spray
REF 1700198-001	Prestilina with 3-hole Unifix
REF 1700199-001	Prestilina with 4-hole Unifix
REF 1600372-001	Prestilina without Unifix
General information	
Speed	Up to 400,000 rpm
Spray	Single
Air pressure	2.2 to 2.5 bar required
Connection	Unifix quick-connect coupling, rotating over 360°
Hoses	4VLM hoses with or without air exhaust or standard hoses
Bur chuck	ø 1.60 mm, ISO Standard 1797
Bur locking mech.	Push button
Cleaning	With Spraynet from Bien-Air, universal spray for cleaning turbines, couplings and hoses
Lubrication	With Lubrimed medical grease or the Lubrifluid spray from Bien-Air
Turbine sterilisation	In autoclave up to 134° C (275° F)

Gyro

Air-bearing turbines

Gyrolina



Gyro with and without light - 3 sprays

The Gyro turbine has a very long life, due to the air bearings, which avoid friction. It operates at 490,000 rpm on a cushion of air.

The new pearl grip profile facilitates maintenance and the triple-spray diffuser, with three separate air-water ports, ensures optimum bur cooling. Bur locking mechanism by friction system (FG) or by screw chuck. The monobloc optical glass rods and the water anti-retraction valve are designed to withstand repeated sterilisation. Gyro turbines require no particular maintenance; cleaning with Spraynet is recommended. Required air pressure 3.5 to 4 bar.



Gyrolina without light - 1 spray

The advantages of the Gyrolina are undoubtedly its air bearings, offering extremely long life, its Unifix quick-connect coupling for fast change of instruments, and its low maintenance. Bur locking mechanism by friction system (FG). Speed up to 440,000 rpm on air bearings. The Gyrolina turbine requires no particular maintenance; cleaning with Spraynet is recommended. Resistant to repeated sterilisation. Required air pressure 3.5 to 4 bar.



Technical data

Gyro L and Gyro Turbines	
Type	Air-bearing turbine
	3 sprays
Gyro L	With light, anti-retraction valve in the handle, monobloc optical glass rods
REF 1700190-001	Gyro L with 4-hole electric-powered Unifix, screw chuck
REF 1600378-001	Gyro L without Unifix, screw chuck
Gyro	Without light, anti-retraction valve in the handle
REF 1700191-001	Gyro with 3-hole Unifix, friction grip (FG)
REF 1700193-001	Gyro with 3-hole Unifix, screw chuck
REF 1700192-001	Gyro with 4-hole Unifix, friction grip (FG)
REF 1700194-001	Gyro with 4-hole Unifix, screw chuck
REF 1600376-001	Gyro without Unifix, friction grip (FG)
REF 1600377-001	Gyro without Unifix, screw chuck
General information	
Speed	Up to 490,000 rpm
Spray	3 separate air and water ports
Air pressure	3.5 to 4 bar required
Connection	Unifix quick-connect coupling, rotating over 360°
Hoses	4VLM hoses with or without air exhaust or standard hoses
Bur chuck	ø 1.60 mm, ISO Standard 1797
Bur locking mech.	Friction grip (FG) or screw chuck
Cleaning	With Spraynet from Bien-Air, universal spray for cleaning turbines, couplings and hoses
Turbine sterilisation	In autoclave up to 134° C (275° F)

Gyrolina Turbine	
Type	Air-bearing turbine, without light
	1 spray
REF 1700202-001	Gyrolina with 3-hole Unifix
REF 1700203-001	Gyrolina with 4-hole Unifix
REF 1600371-001	Gyrolina without Unifix
General information	
Speed	Up to 440,000 rpm
Spray	Single
Air pressure	3.5 to 4 bar required
Connection	Unifix quick-connect coupling, rotating over 360°
Hoses	4VLM hoses with or without air exhaust or standard hoses
Bur chuck	ø 1.60 mm, ISO Standard 1797
Bur locking mech.	Friction grip (FG)
Cleaning	With Spraynet from Bien-Air, universal spray for cleaning turbines, couplings and hoses
Turbine sterilisation	In autoclave up to 134° C (275° F)

Eolia

Ball-bearing turbines



Bayonet coupling rapid connection.



Eolia without light - 1 spray

Economy version with rapid connection.

The new Eolia turbine is equipped all with the essential functions of a modern, reliable instrument, offering Swiss quality at a competitive price. Its perfect balance and refined design make it exceptionally easy to handle. It will meet the needs of practitioners seeking a light and powerful turbine, which is easy to interchange.

Rapid connection due to the new B type bayonet coupling, very light, made with high-resistance synthetic material, available in 2/3-hole or 4-hole versions with a anti-retraction valve. Connects to 2 and 3-hole hoses without light, or 4-hole hoses with or without light. Optimum cooling due to single spray: separate air/water ports. Simple bur changeover, made easier by a large push button. Speeds up to 315,000 rpm. Required air pressure of 2.5 bar.

Technical data

Eolia B Turbine	
Type	Ball-bearing turbine, without light, multipurpose, medium-sized head, metallic casing
	Economy
	1 spray
Special feature	Robust head and lightweight body on the coupling side, improving handling
REF 1700225-001	Eolia B turbine set with 2/3-hole coupling
REF 1700226-001	Eolia B turbine set with 4-hole coupling
REF 1600465-001	Eolia without coupling
REF 1600466-001	B type bayonet coupling, 2/3-hole, single unit
REF 1600467-001	B type bayonet coupling, 4-hole, single unit

General information

Speed	Up to 315,000 rpm
Spray	Single spray, through separate water and air ports
Air pressure	2.5 bar with normal use
Air flow	29 standard litres/min with 4-hole coupling / 32 standard litres/min with 2/3-hole coupling
Noise level	66 dBA for 4-hole version / 69 dBA for 2/3-hole version
Connection	By B type bayonet coupling; 2/3-hole or 4-hole with anti-retraction valve
Hoses	4VLM hoses with or without air exhaust or standard hoses
Bur chuck	ø 1.60 mm, ISO standard 1797
Bur locking mech.	Large push button
Weight	44 g for turbine and coupling, 38 g for turbine alone
Cleaning	With Spraynet from Bien-Air, universal spray for cleaning turbines, couplings and hoses
Lubrication	With Bien-Air Lubrifluid spray
Turbine sterilisation	In autoclave up to 134°C (275°F)
Warranties	12 months for the Eolia turbine / 6 months for B type couplings



Accessories



Unifix quick-connect couplings

With light

REF 1600363-001	4-hole Unifix with air non-return valve
REF 1600086-001	4-hole Unifix with spray adjuster



Without light

REF 1600081-001	3-hole Unifix
REF 1600082-001	4-hole Unifix



Eolia B with bayonet coupling system

Without light

REF 1600466-001	Eolia B, 2/3-hole
REF 1600467-001	Eolia B, 4-hole with air non-return valve



4VLM hoses

ø 11 mm with air exhaust

REF 1600097-001	4VLM, standard length 1.7 m, grey
REF 1600097-0	4VLM, special length up to 3.5 m, grey
REF 1600098-001	4VLM, standard length 1.7 m, black
REF 1600098-0	4VLM, special length up to 3.5 m, black



ø 10 mm without air exhaust

REF 1600102-001	4VLM, standard length 1.7 m, grey
REF 1600102-0	4VLM, special length up to 3.5 m, grey
REF 1600103-001	4VLM, standard length 1.7 m, black
REF 1600103-0	4VLM, special length up to 3.5 m, black

Power supply for lighting

Due to their small size, these electrical systems for turbines can be easily incorporated into air-driven and electrically controlled dental units. PLPE 890 FO will power two separate outputs on air-driven units, with optional 10 sec. time delay. PL 822 FO will power electrically controlled units.



Power supplies for lighting

REF 1600142-001	PLPE 890 FO with box
REF 1600140-001	PL 822 FO without box

Maintenance



Bien-Air maintenance products

Turbines will enjoy a long life, if the appropriate maintenance procedures are followed. Bien-Air has developed a high-performance product range.

Sprays: Spraynet® for exterior cleaning, Lubrifluid® for lubrication. Or Lubrimed® medical grease, for ideal ball bearing lubrication.

A tip from Bien-Air

After cleaning and disinfection/sterilisation of the instrument, before use, operate at moderate speed with a bur in the bur locking mechanism for 10 to 15 seconds, so as to spread the lubricant and remove any excess.

Maintenance products

REF 1600036-006 Spraynet. Box of 6 cans

REF 1600064-006 Lubrifluid Spray. Box of 6 cans

REF 1600037-006 Lubrimed Grease. Box of 6 refills

REF 1000003-001 Lubrimed Greaser

For further information, see animations at www.bienair.com

Sterilisation

Turbine sterilisation in steam autoclave up to 134°C (275°F). The time required for sterilising our products must comply with the local legislation in force for this type of instrument.

The couplings and hoses are not sterilisable.



Bien-Air - An impressive family history

David Mosimann, an inventive and entrepreneurial precision mechanic with a passionate dedication to his trade and meticulous workmanship, decided to set up his own business in 1948. He started a wonderful adventure by founding Bien-Air SA in 1959, and since then the firm has constantly expanded. David Mosimann's enthusiasm was inherited by his son Vincent, who took up the banner with as much energy as his father. Bien-Air, established in Biel, now has more than 400 employees, in Switzerland and throughout the world.

Over four decades of prosperity

To meet ever-growing demand, Bien-Air has constantly enlarged its product range. After dental instruments and laboratory equipment, Bien-Air moved into ENT surgery and, more recently, implantology and microsurgery with various technologies. These new businesses are likewise areas in which reliability and safety are dominant features. To implement this corporate policy, Bien-Air in 1974 opened a production branch in Saignelégier (Jura region of Switzerland). In 1998 the Biel and Saignelégier buildings were enlarged. These changes enabled internal flows to be optimised. The new premises increased staff comfort and efficiency at Bien-Air, which has now celebrated its 40th anniversary.

Quality first

Determined to meet its customers' needs, the company has always invested heavily to enhance reliability. Modern machining techniques and stringent controls at each stage of manufacturing and assembly are the key to impeccable product quality, and products are marketed by a global distribution network. Management, supported by highly qualified personnel, has applied this strict policy in every department. The results were soon apparent: Bien-Air Dental SA is now certified compliant with ISO 9001/EN 46001 standards and EEC directive 93/42.

Global Service

Bien-Air Group's eight subsidiaries in Europe, Asia and the United States are the backbone of a well-oiled distribution network. Local inventory ensures very short delivery times. Constantly attentive to the market and its representatives, the company is able to design and supply instruments and equipment meeting the specific requirements of each customer. More than 130 technicians provide rapid, efficient, on-the-spot customer service worldwide. Personalised advice and support, training and telediagnosics are already helping our customers achieve greater efficiency.