

4 VX & B4VX

⚠ Do not sterilise

Instruction

REF 2100053-ENG/03.10



CE
0120

English

Medical devices entirely made in Switzerland by Bien-Air Dental SA.

Type

Grey silicone hoses, for MX electric micromotor with light.

4VX

with revolving 4-hole connector.

B4VX

with revolving 4-hole connector, bayonet connection to unit.

Intended use

Product intended for professional use only. Use in dentistry for prophylaxis, general dentistry and endodontic work.

Technical data and assembly

These hoses are not suitable for pressure higher than 5 bar (500 kPa, 72 psi).

Classification

Class IIa, «active medical devices», as per section III «Classification», Rule 2 of Annex IX to European Directive 93/42/EEC, namely: «Non-invasive devices intended for channelling liquids or gases for the purpose of administration into the body, which may be connected to an active medical device in Class IIa».

Standard length

1.70 m

Maximum direct current

2.5 A (5 A 10 s)

Sustained voltage according to CEI 60601-1

500 Vac/1 min

Flow rate of the air-intake tube at 2.5 bar

62 normliter/min

Flow rate of the air-spray tube at 2.5 bar

7.6 normliter/min

Flow rate of the water-spray tube at 2 bar (29 psi)

170 ml/min

Assembly on motor fig. 1

Electric micromotor MX.

Installing the socket in the unit fig. 2-5

Drilling for the wall $\varnothing 18 \text{ mm} \pm 0.2$

Machine a countersink for the catch fig. 2

Tighten nut 150 Ncm maximum

Minimum wall thickness 1.5 mm

Maximum wall thickness 6 mm

Assembly 4VX fig. 6

Preserve the initial alignment of the wires and tubes. Place the metal reinforcement ring REF 004.26.26 in the chucking zone fig. 6a.

Grip the securing cord fig. 6b.

For the tubes without string, except coiled hose, select the red or the brown wire and apply the principle of the security string fig. 6b.

Resistance to traction: 60 N maximum.

Description fig. 6

- ① $\varnothing 1.5/2.5 \text{ mm}$ green: waterspray
- ② $\varnothing 1.5/2.5 \text{ mm}$ white: airspray
- ③ Phase A motor, blue
- ④ Phase B motor, red
- ⑤ Phase C motor, black
- ⑥ + light, brown
- ⑦ - light, orange
- ⑧ $\varnothing 2.8/4.1 \text{ mm}$ white: cooling motors
- ⑨ securing cord
- ⑩ silicone sheath

Accessories

For revolving 4-hole connectors, fig. 7: O-ring connections REF 1300368-010 and 1300406-010.

For bayonet connectors, fig. 8: O-ring connections REF 1300367-010 and 1300368-010.

Quick connector on unit side only for $\varnothing 18 \text{ mm}$ hole, with rotation prevention notch. Standard length 60 cm.

Maintenance

⚠ Non-sterilisable

Cleaning

Use **Spraynet** from Bien-Air Dental fig. 9. Spray the outside of the equipment and carefully clean the surface.

Disinfection

Disinfect using a clean cloth soaked in a suitable product. Products containing acetone, chlorine and bleaches are not recommended as disinfectants. To keep the surface of the hose in good condition, it is advisable to periodically wipe the complete length of it with a cloth dusted with talcum powder.

Never immerse in disinfectant solutions.

Not suitable for ultrasonic bath.

Environment

Temperature between -40°C (-40°F) and 70°C (158°F), relative humidity between 10% and 100%, atmospheric pressure 50 kPa to 106 kPa (7.3 to 15.3 psi).

Information

The technical specifications, illustrations and dimensions contained in these instructions are given only as a guide. They may not be the subject of any claim. The manufacturer reserves the right to make technical improvements to its equipment, without amending these instructions. For all additional information, please contact Bien-Air Dental SA at the address indicated on the back cover.

General information

The device must be used by a qualified person in accordance with the current legal provisions concerning industrial safety, health and accident prevention measures, and these working instructions. In accordance with these requirements, the operators:

- must only use operating devices that are in perfect working order; in the event of irregular functioning, excessive vibration, abnormal heating or other signs indicating malfunction of the device, the work must be stopped immediately; in this case, contact a repair centre that is approved by Bien-Air Dental;

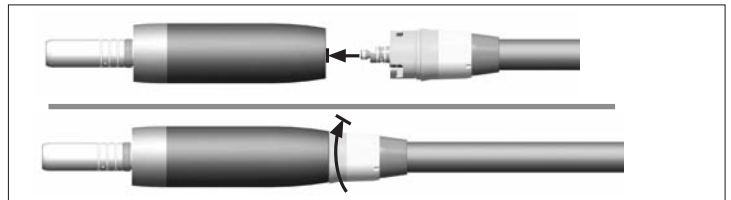


fig. 1

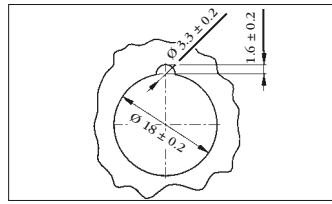


fig. 2

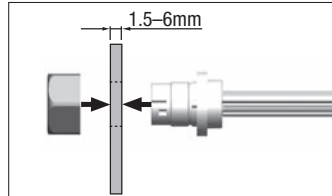


fig. 3

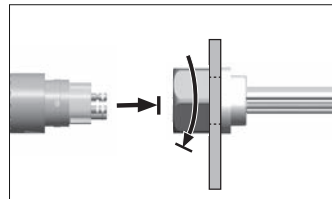


fig. 4

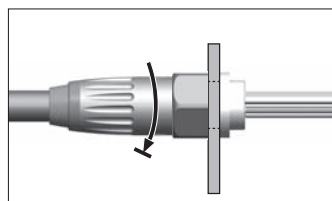


fig. 5

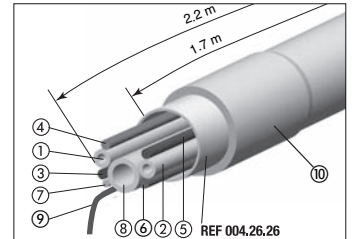


fig. 6a

fig. 6b

fig. 6

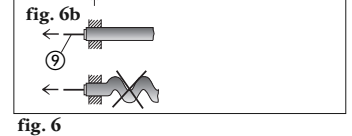


fig. 7



fig. 8

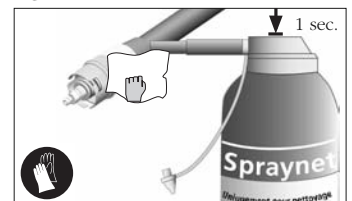


fig. 9

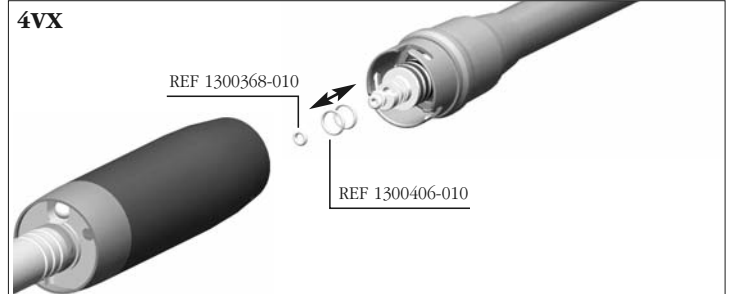


fig. 10

- must ensure that the device is used only for the purpose for which it is intended, must protect themselves, their patients and third parties from any danger, and must avoid contamination through the use of the product.

The device is intended for medical treatment only; any use other than that for which this product is intended is unauthorised and may be dangerous. The medical device meets all the current legal requirements.

The device is not authorised for use in an explosive atmosphere (anaesthetic gas).

Recommendations

It is essential to use dry, purified compressed air in order to ensure the long working life of the device. Maintain the quality of the air and the water by regular maintenance of the compressor and the filtration systems. The use of unfiltered hard water will lead to early blockage of the tubes, connectors and spray cones.

Rest the device on a suitable support to avoid risks of infection for yourself, the patient or third parties. Only use maintenance products and components

from Bien-Air Dental. The use of other products and components can void the guarantee.

Guarantee

Terms of guarantee

Bien-Air Dental grants the operator a guarantee covering all functional defects, material or production faults.

The device is covered by this guarantee for 12 months from the date of invoicing.

In the event of justified claim, Bien-Air Dental or its authorised representative will fulfil the company's obligations under this guarantee by repairing or replacing the product free of charge. Any other claims, of whatever nature, in particular in the form of a claim for damages and interest, are excluded.

Bien-Air Dental shall not be held responsible for damage or injury and the consequences thereof, resulting from:

- excessive wear and tear
- improper use
- non-observance of the instructions for installation, operation and maintenance

- unusual chemical, electrical or electrolytic influences
- poor connections, whether of the air, water or electricity supply.

The guarantee does not cover flexible "fibre optic" type conductors, or any parts made of synthetic materials.

The guarantee shall become null and void if the damage and its consequences are due to improper manipulation of the product, or modifications to the product carried out by persons not authorised by Bien-Air Dental.

Claims under the terms of the guarantee will be considered only on presentation, together with the product, of the invoice or the consignment note, on which the date of purchase, the product reference and the Serial No. should be clearly indicated.






REF	Legend
1600387-001	4VX hose, grey silicone, with revolving 4-hole connector
1600387-0	4VX hose, special length
1600428-001	B4VX hose, grey silicone, with revolving 4-hole connector, bayonet connection to unit
1600428-0	B4VX hose, special length
1600278-001	Quick connector on unit side, only for Ø 18 mm hole, with rotation prevention notch. Standard length 60 cm
1600278-0	Quick connector special length
1300367-010	O-ring Ø 3.2 x 0.6
1300368-010	O-ring Ø 1.5 x 0.75
1300406-010	O-ring Ø 4 x 0.6
1600036-006	Spraynet, cleaning spray 500 ml, box of 6 cans

List of Bien-Air Dental SA registered trade mark products @:

Aquilon®	Eolia®	Isolite®	MX®
Bora®	Gyro®	Lubrifiuid®	Prestilina®
Boralina®	Gyrolina®	Lubrimed®	Spraynet®

In these instructions, "Device" corresponds to the product described in the heading "Type". For example, turbine, contra-angle, handpiece, micromotor, tube, electronics, connectors, station etc.

Symbols

	CE Marking with number of the notified body.
	Wear rubber gloves.
	Attention.
	Move in the direction indicated.
	Move fully to the stop, in the direction indicated.

This product may be covered by one or more of the following patents:

EP Europe: 0 497 139 / 0 526 783 / 0 745 358 / 0 688 539 / 0 894 879 / 1 145 688 / 1 109 301 **DE Germany:** 296 16 023.7
DK Denmark: 96 00315 **FR France:** 2 679 804 / 2 722 972 / 2 733 680 / 2 692 621 / 2 720 263 / 2 757 763 / 2 766 697 / 2 781 318
CH Switzerland: 693 922 **CN China:** 129343 **JP Japan:** 2 037 611 / 1 991 770 **US United-States:** 5.059.122 / 4.773.856 / 6.033.220 / 6.337.554 / 5.453.008 / 6.319.003 / 6.495.937

REF 1600387-001 HOSE 4VX GREY / REF 1600387-0 HOSE 4VX GREY / REF 1600428-001 HOSE B-4VX GREY / REF 1600428-0 HOSE B-4VX GREY

Set supplied

4VX

REF 1600387-001
REF 1600387-0

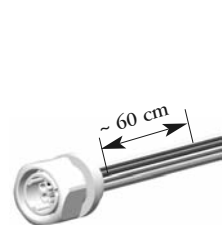


B4VX

REF 1600428-001
REF 1600428-0



Optional accessories



REF 1600278-001



10x
REF 1300367-010



10x
REF 1300406-010



10x
REF 1300368-010



6x
REF 1600036-006

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