

Hygiene Handpiece

USER MANUAL

[5259-776]

Indication for Use

PRO-SYS Hygiene Handpiece is intended to be used with a disposable prophylaxis angle and prophylaxis paste by a trained dental professional to perform dental prophylaxis.

Accessories: Nose cones 3 pieces

5259-776 V1.4

Specifications

Diameter x Length:	19 mm x 112 mm
Weight:	69 g
Operating Speed:	3,000 r.p.m. $\pm 10\%$ (4:1 reduction)
Operating Air Pressure:	3 kg/cm ² (42 p.s.i.)
Connector Type:	Midwest 4 hole (type 2 connector per ISO 9168)
Filtration:	20 micron air filter recommended
Attachment:	ISO standard doriot type disposable prophylaxis angles 510 (K) cleared and CE marked. Benco disposable prophylaxis angles are recommended.

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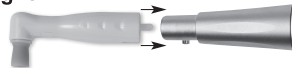
Installation

1. Check the back end of the device to make sure it corresponds to the configuration of the air hose on the dental unit. The air hose should be a four-line tubing ISO connector.
2. Hold the air hose connector with one hand and the end of the hygiene handpiece with the other hand.
3. Align and insert fittings on the hygiene handpiece into the holes on the hose connector.
4. Turn the ring coupler clockwise against the handpiece until it is finger tight.
5. The hygiene handpiece can be removed from the air hose by turning the ring coupler anti-clockwise gently until the threads come off the handpiece. The handpiece can then be removed by pulling it off the air hose connector.

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Inserting & Removing of Prophylaxis Angle

Fig. 1



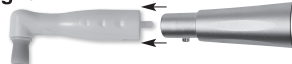
Fit the disposable prophylaxis angle axially onto nose cone of hygiene handpiece. Align the groove on the disposable prophylaxis angle (Fig.1 and Fig.2) with the guide pin in the nose cone.

Fig. 2



Insert the disposable prophylaxis angle as far as it will go, check if it is securely attached. Disposable prophylaxis angle is held by friction on the hygiene handpiece.

Fig. 3



Remove by pulling the disposable prophylaxis angle (Fig.3) off the hygiene handpiece axially.

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Post-use Maintenance (Cleaning, Lubrication & Sterilization)

Preparation

1. Use correct eye, face and personal protection to avoid possible infection.
2. Remove prophyl angle from the hygiene handpiece.
3. Disconnect the hygiene handpiece from the air hose.

Cleaning

1. Remove the nose cone from the handpiece motor by pulling the nose cone off the handpiece motor axially.
2. Remove dirt and debris from the nose cone and handpiece motor separately using a water soaked soft cloth. Do not use a wire brush.
3. Wipe clean with alcohol-immersed cotton swab or cloth.



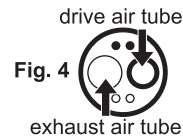
CAUTION: Do not use ultrasonic bath during the cleaning process.

Do not use strong/highly acidic water, strong acid/alkaline chemicals, chlorine containing solutions or solvents such as benzine or thinner to wipe, immerse or clean this hygiene handpiece.

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Lubrication

1. Oil spray lubrication is required prior to each sterilization.
2. Any mineral oil-based dental handpiece lubricant is acceptable.
3. Assemble the nose cone and handpiece motor after cleaning.
4. Locate the drive air tube at the back end of the handpiece.
5. Keep the spray bottle upright and insert the spray nozzle firmly into the drive air tube.
6. Cover the nose of the device with a paper towel.
7. Spray into the drive air tube for two seconds until oil comes out from the exhaust air tube (Fig. 4).
8. Run the device for approximately 30-40 seconds or until all excess lubricant is expelled. Any excess lubricant remaining on the surface of the handpiece should be removed with a paper towel.
9. The PRO-SYS Hygiene Handpiece can be installed into a handpiece lubrication station or machine for lubrication. Please follow the instructions from the lubrication system manufacturer.



Hazard warning: Always read and follow the instructions on the label of the oil spray

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Sterilization

1. Place and seal the device in a sterilization pouch prior to sterilization.
2. Steam sterilize the device under the conditions below:

Type of Cycle	Temperature	Exposure Time	Minimum Drying Time
Gravity	121°C (250°F)	30 minutes	15-30 minutes
	134°C (273°F)	15 minutes	15-30 minutes
Dynamic Air Removal	134°C (273°F)	4 minutes	20-30 minutes

3. Store the device in the sealed sterilization pouch prior to use.
*Only use FDA cleared or CE marked sterilization accessories such as sterilization pouches and trays for the intended sterilization cycles for this PRO-SYS Hygiene Handpiece.

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Contraindications None known

Hazards, Warnings and Precautions

If the maintenance procedures (see **Lubrication**) are strictly followed, the use of the device does not present a thermal hazard to the patient and the operator.

Warnings: 1. Supply air pressure may vary between different dental units.



Always use the least amount of supply air pressure to provide sufficient torque for the operation of this hygiene handpiece.

2. Under normal operating conditions, air is exhausted from the back of the head of this handpiece. If air is directed into an open soft tissue wound or beneath the mucosa or dermis, injury to the patient could happen from air emphysema or air embolism.
3. If there are any visible signs of discoloration, peeling, cracks, wear/tear or malfunction etc, please discard the device.

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Precautions: This hygiene handpiece is a high-tech delicate mechanical instrument. Dropping this handpiece may lead to poor performance or malfunction of the device.

Troubleshooting

Problem:	Solution:
Air leak at handpiece motor end	Replace rear seal
Torque too low	Check unit air pressure
Prophy angle jammed	Use prophy angles meeting ADA Standard,
Prophy angle vibrates during operation	Benco disposable prophy angles recommended

Note: If a problem persists, contact Benco Dental for further assistance.

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CAUTION: Federal law restricts this device to sale by or on the order of a health care professional/dentist. For dental use only!

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Disposal of Product

In order to avoid the health risks to operators handling the disposal of medical devices, as well as the risks of environment contamination caused thereof, a surgeon or a dentist is required to confirm the device is sterilized prior to disposal. Ask a specialized firm who is licensed to dispose specially controlled medical wastes, to dispose this product for you. Always follow your country specific laws, directives, standards and guidelines for disposal of medical devices.

Warranty

This hygiene handpiece is warranted against manufacturing and material defects. Benco Dental reserves the right to analyze and determine the cause of any problem. The Warranty is voided should the product not be used in accordance to the user manual, not for its intended purpose, has not been repaired by Benco Dental, or has non-genuine Benco Dental parts installed.

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Declaration of conformity

Benco Dental declares that this hygiene handpiece complies with following normative documents: ISO 9168; ISO 10993

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