

Prophy-neo Partner

Air Powered Tooth Polishing System

OPERATION MANUAL

Thank you for purchasing Air Powered Tooth Polishing System.
Read this Operation Manual carefully before use, and file for future reference.

WARNING

- This is for dentists and dental hygienists use only.
- Do not use on the following patients.
 - 1) Those who require restriction on sodium intake.
 - 2) Those with grave ulcers in digestive organ.
 - 3) Those with hepatic dysfunction.
 - 4) Those with lung or cardiac dysfunction.
 - 5) Those with hyperemia, hemorrhage, or inflammation in the oral cavity.
 - 6) Those with damage or abnormality in oral cavity.
 - 7) Those who tend to develop inflammation in the oral mucous membrane.
 - 8) Those with allergies.
 - 9) Those with contact lenses.
- Do not use a powder case cover if it has cracks or deep scratches in it. Such cover might break by the applied air pressure, and fragments would fly.
- Do not hit or impact the powder case cover.
- Do not expose the powder case cover to Organic Solvents, etc, because it may break.
- Powder case cover is a consumption article. It will deteriorate by ultraviolet rays, or by other environment factors. Replace the powder case cover every six months.
- Take the powder case cover and rubber packing once a week, and clean the clung powder. When doing this, check the powder case cover that it has no cracks or deep scratches on it.

CAUTION

- Do not jet directly onto the oral soft tissues or subgingiva.
- Use clean and dry air all the time. Moist air could cause the powder to solidify and clog the powder passage.
- Care should be exercised to prevent the scattered powder from entering the patient's other mucous membranes than oral, such as eyes and nose.
- Use our powder only. In case a trouble takes place with use of other powders, we shall not be held liable to the incident and consequences.
- Fill one pack of powder in the powder case for each patient. In case some amount of the powder is left in the powder case unused, discard it.
- Do not use the powder remained in the pack unused for an extended period of time, to avoid clogging of the device by the moistened powder.
- When Air prophy unit is disconnected from the coupling or from the handpiece hose, wipe water from its connecting end and from the hose. Moist powder could cause the powder passage to clog.
- To store after use, remove powder from the powder case and clean its interior.
- Remove oil, chemicals and other harmful materials from the plastic powder case cover as soon as they are found. Such may cause the cover to break in time.

1. Caution before use

This product is for jetting powder. It may clog by moist air or by water. Do not use at the delivery system which air pressure may increase rapidly when it clogged.

■ How to check the air pressure of the delivery system.

- ① Check if the air pressure of the delivery system will not increase extraordinary, when you cover the tip of the syringe.
- ② In case of extraordinary increase, check the regulator just before the delivery system.
- ③ In case of there is no regulator connected, install the regulator with diaphragm valve

2. Operation

- (1) Connecting Powder Case to Handpiece Hose 4-Hole, or 2-Hole type Powder Case
Connect the powder case directly to the corresponding handpiece hose.
- (2) Mounting nozzle to Powder Case
Slide back the handpiece release ring on the powder case joint and hold. Insert the nozzle into the powder case joint, and release the ring.
- (3) Filling Cleaning Powder
Unscrew the powder case cap and remove. Break a seal of the cleaning powder pack, and fill whole pack of powder in the powder case. Recap the powder case cap securely.

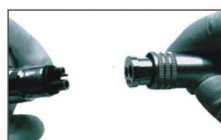


Fig.1



Fig.2

CAUTION

Do not use the left-over powder or the powder in the pack opened days ago. They could get moist and cause clogging of the powder passage.

- (4) Jetting Powder
Aim the nozzle at the cuspidor, and jet for 3 seconds to verify that the powder jets uniformly. And use on the patient. Use with the nozzle 5-10 mm

CAUTION

Do not jet the powder directly to the oral soft tissues, gum or subgingiva. Always use the high volume evacuator to prevent the patient from swallowing the powder. Use intermittently and have the patient wash his or her mouth as often as needed.

3. Care After Use

- ① Unscrew the powder case cap, and completely empty the powder case.
- ② Slide back the nozzle release ring, and remove the nozzle from the powder case.
- ③ Wipe saliva and debris off the nozzle with alcohol-immersed cloth.
- ④ Remove the powder case from the coupling, or from the nozzle.
- ⑤ Remove the O-ring from the powder case cap, plastic powder case cover, and thin gasket. Clean the powder case cover, O-ring, thin gasket and the serrated powder case cover ring.
- ⑥ Clean the powder case body with the supplied brush. Clean the powder case, its body, nozzle and the nozzle in boiling water for 10 minutes, if the powder passages are clogged badly.



Fig.3



Fig.4

CAUTION

To mount the nozzle, mount the nozzle and turn the nut until finger tight. Use the nozzle wrench to securely tighten the nozzle nut.

- ⑦ Dry them completely for next use.

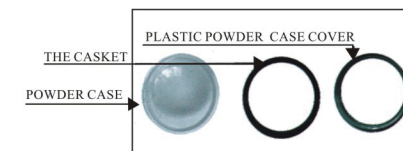


Fig.5

4. Sterilization

The manufacturer recommends autoclaving.

- ① Disassemble Air prophy unit into the following components.
 - Powder case and nozzle.
 - Powder Case into the powder case body and the powder case cap.
 - Powder case cap into the O-ring, powder case cover, thin gasket and serrated cover ring.
- ② Autoclave for 20min, at 121°C, or 15min, at 132°C.
- ③ Prior to use, open the pouch and assemble the nozzle into the powder case. Assemble the powder case cover. Fill powder in the powder case and assemble the powder case cover to the powder case.

CAUTION

- Skip dry cycle if the chamber temperature could exceed 135°C.
- Place the pouch in the central or top tray, as the local temperature at the chamber bottom could exceed the set temperature.
- Do not sterilize with other instruments that are not completely cleaned from the chemicals. Chemical vapors could set on the AirProphy Unit components and cause them to discolor or malfunction.

5. Troubleshooting

Nombe	Trouble	Probable Cause	Remedy
1	No air or powder exits from nozzle.	(1) The nozzle is clogged.	Remove the nozzle when no powder in the powder case. Clean the nozzle and the powder case with the cleaning file. Last puffed it by 3-way syringe.(fig.7 and fig.8)
		(2) Powder case is clogged.	Insert the cleaning wire into the hole in the center of the nozzle joint section at the way until it stops in the hole. If this does not cure the problem, clean the powder case body in the boiling water for 10 minutes. Dry it thoroughly.(Fig.6)
2	Air and powder exit from the nozzle, but not in sufficient power.	(1) Powder that has been left unused was used.	Change with new powder.
		(2) Water invaded into the drive air passage.	Change the O-ring at the coupling end of the powder case. Check the quality of drive air. Drain the air filter and air compressor.
		(3) Air passage is partially blocked by the powder solidified by water.	Remove the nozzle. Clean the nozzle, powder case with the supplied wire.(fig.6,fig.7 and fig.8)
3	Water leaks from the nozzle joint at the powder case.	O-ring is damaged.	Change O-rings.
4	Nozzle hardly swivels.	Cleaning powder accumulated in the O-ring groove, making the nozzle swivel extremely resistive.	Remove the O-rings. Brush the powder off the O-ring grooves and joint. Clean the O-rings. Put them back on the joint.

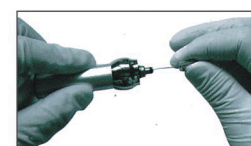


Fig.6

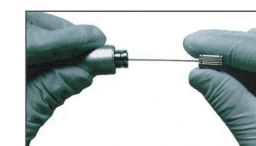


Fig.7

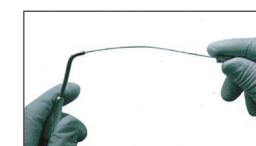


Fig.8