NSK

Internal Coolant Airmotor

IS-205

135°C 111 : AUTOCLAVABLE

OPERATION MANUAL

OM-M0021E Rev.A

CE 0197 The EU directive 93/42/EEC was applied in the design and production of this medical device.

Please read this Operation Manual carefully and file for future reference.

⚠ Caution

General Cautions

- Patient's safety is the first priority during treatment.
- Should the airmotor function abnormally, cease operation immediately and return the airmotor to the dealer for repair.
- Do not drop nor hit airmotor against hard object.
- Do not disassemble nor alter the airmotor.

Cautions on Operation

- Always check for vibration, heating, noise and sluggish operation before use in the patient's mouth. If such abnormality is found, stop using and call the dealer.
- Do not mount nor remove the attachment while airmotor is rotating.
- Keep clean and dry supply sir. Moisture and debris in supply air may cause the airmotor to malfunction.

Cautions on Lubrication.

- Lubricate the airmotor after each use. Always lubricate the airmotor prior to autoclaving.
- Hold the airmotor firmly while activating spray. The airmotor, otherwise, may be ejected from the spray nozzle by the spray pressure.

1. Features

- The NON-RETRACTION VALVE, incorporated in the rear joint, prevents suction of oral fluids in a patient's mouth into the water line of the handpiece at the spray water outlet port. (PAT.)
- Various E-type internal coolant attachments are adaptable.
- The airmotor is autoclavable.
- Specially-coated cylinder provides outstanding durability.
- Selection of Forward or Reverse Rotation, or Stop is achived at the airmotor.

2. Specifications

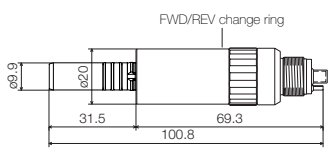

Fig. 1

Weight···90g

Drive air [Mpa (kgf/cm²)]	Speed [min⁻¹(rpm)]	Air Consumption [NL/min]
0.25 (2.5)	22,000	42
0.3 (3.0)	25,000	51
0.4 (4.0)	27,000	72

✻ Speed may vary slightly depending on the back-end configuration, the direction of rotation, type of hose used.

3. Mounting of attachment

(1) Mounting the Attachment
Insert the E-type attachment into the motor all the way until clicks to stop.
(2) Removing the Attachment
Simply pull out the attachment from the motor.

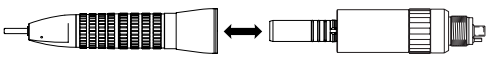

Fig. 2

4. Forward/Reverse Rotation

(1) Forward Rotation : Turn the FWD/REV change ring to "F" as shown in Fig. 3.
(2) Reverse Rotation : Turn the FWD/REV change ring to "R" as shown in Fig. 4.
(3) When the FWD/REV change ring is positioned at the middle of "F" and "R" , the drive air is interrupted and the motor does not rotate. (Fig. 5)

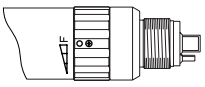

Fig. 3

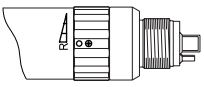

Fig. 4

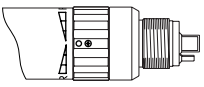

Fig. 5

5. Lubrication

Disconnect the motor from the handpiece hose, and supply a few drops of Air Turbine Oil (Cat.No.Z016-112) or PANA-SPRAY for a few seconds into the drive air tube at the back end of the motor as shown in Fig. 6.

Air Turbine Oil:
Supply 2-3 drops of oil into the drive air tube. Run the airmotor for a while, approx. 10 seconds, to deliver the oil into the airmotor.

PANA-SPRAY:
Mount the arrow-head spray nozzle tip into the spray port. Hold the nozzle tip firmly into the drive air tube of the airmotor. Supply spray lubricant for approx. 2 seconds. Hold the airmotor firmly against the spray nozzle tip, with the can upright. The airmotor, otherwise, may be ejected from the nozzle by the spray pressure. (Fig. 7)

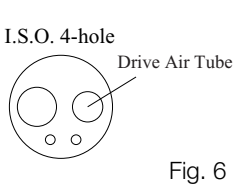

Fig. 6

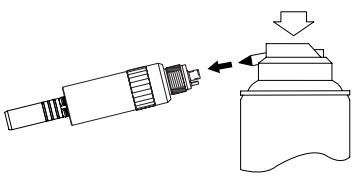

Fig. 7

6. Sterilization

Is-205 airmotor is autoclavable.

● Autoclaving Procedure :

① Wipe off dirt with alcohol-soaked cloth.
② Lubricate the motor. Use PANA-SPRAY or Air Turbine Oil. When Air Turbine Oil is used, be sure to operate the motor for a few seconds before autoclaving.
③ Insert in a sterilizing pouch and seal it.
④ Autoclave for 20 minutes at 121°C, or 15 minutes at 132°C.
Do not exceed the sterilizer chamber temperature above 135°C.

※ Specifications may be changed without notice.

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