SAFETY CAUTIONS

Read these safety precautions before use and operate the product properly.
The indicators are to allow you to use the product safely and prevent danger and harm to you and others. These are classified by degree of danger, damage and seriousness. All indicators concern safety, and be sure to follow them.

<table>
<thead>
<tr>
<th>Classification</th>
<th>Degree of Danger or Damage and Seriousness</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DANGER</strong></td>
<td>Explains an instruction where death or serious injury may occur.</td>
</tr>
<tr>
<td><strong>WARNING</strong></td>
<td>Explains an instruction where bodily injury or damage to device may occur.</td>
</tr>
<tr>
<td><strong>CAUTION</strong></td>
<td>Explains an instruction where possibility for minor to medium bodily injury or damage to device may exist.</td>
</tr>
</tbody>
</table>

**DANGER**

- Do not install, use this product, or fill it with maintenance oil in room with a risk of explosion or near open flames.
- Do not install or use the product in direct sunlight or where the temperature exceeds 40˚C (104˚F).
- Do not use the product for other purposes than the maintenance (cleaning and lubrication) of handpieces described in this operation manual.
- Provide adequate ventilation periodically. If odors make you worried, immediately provide ventilation.

**WARNING**

- Do not handle the power cord with wet hands. Failure to do so may result in an electric shock.
- Be careful not to spill water onto the unit. Failure to do so may result in fire or electric shock due to a short-circuit.
- Do not disassemble or alter the unit. In case of service or repair, contact your dealer.
- If the unit smokes or a burning resin smells, immediately turn off the power switch and disconnect the power plug. Contact your dealer.
- Do not drop the unit. Place the unit on a flat surface.
- Use the fuse of specified rating. (120V: T800mAL250V, 220V/240V: T400mAL250V)
1. FEATURES

- Have a choice of 4 types of assortment of joints according to the treatment style.
  - C0 type: E-type = - Air turbine = 3 pcs.
  - C1 type: E-type = 1 pce. Air turbine = 2 pcs.
  - C2 type: E-type = 2 pcs. Air turbine = 1 pce.
  - C3 type: E-type = 3 pcs. Air turbine = -
- Helps to perform uniform handpiece maintenance and lubrication.
- Three handpieces can be cleaned and lubricated simultaneously keeping your hands clean.
- Care3 Plus’s rotating gear effectively and efficiently cleans and lubricates contra angle handpiece.
- Pressing the air key can purge excess oil from the handpiece after lubrication and cleaning cycle to some extent.
- Select the lubrication setting time from Short Mode, Long Mode and Extra Long Mode according to the handpiece.
- The mist filters attached behind the door can keep mist leakage to a minimum.

2. SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>NE187</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Voltage</td>
<td>AC120V±10% 60Hz</td>
</tr>
<tr>
<td></td>
<td>AC230V±10% 50/60Hz</td>
</tr>
<tr>
<td>Input Voltage</td>
<td>120V : 19.0VA</td>
</tr>
<tr>
<td></td>
<td>230V : 19.5VA</td>
</tr>
<tr>
<td>Air Pressure</td>
<td>0.35-0.6MPa (3.5-6.0kgf/cm²) (50-85psi)</td>
</tr>
<tr>
<td>Tank Capacity</td>
<td>350mL</td>
</tr>
<tr>
<td>Dimensions</td>
<td>W280 x D275 x H 360 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>C0Type : 6.8kg  C1Type : 7.1kg</td>
</tr>
<tr>
<td></td>
<td>C2Type : 7.2kg  C3Type : 7.3kg</td>
</tr>
</tbody>
</table>

3. PARTS NAMES

![Fig. 1](image1.jpg) ![Fig. 2](image2.jpg)
4. INSTALLATION AND ASSEMBLY

(1) Fuse Rating
Refer to the table below and check that the power supply voltage fits the fuse rating. To check the fuse rating, remove the fuse box (see 8. (7) Changing Fuses). (Fig. 3)

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>120 V</td>
<td>T800 mA 250 V</td>
</tr>
<tr>
<td>220 V / 240 V</td>
<td>T400 mA 250 V</td>
</tr>
</tbody>
</table>

Fig. 3

(2) Connecting Air Tube
Securely insert the end face of the air tube into the air filter connector at the back of the unit as far as it will go. (Fig. 4) Connect the Y type one-touch joint to the air source (air compressor) of the dental unit as shown in Fig. 5.

Fig. 4

Fig. 5
(4) Oil absorbent sheet
Place an oil absorbent sheet at the bottom of the lubricating and cleaning room of the unit as shown in Fig. 7. The oil absorbent sheet absorbs the maintenance oil that was used for lubricating and cleaning.

(5) Connecting Power Cord
Insert the power cord jack into the inlet at the back of the unit. (Fig. 8)

5. OPERATION PROCEDURES

(1) Attaching Handpiece

- Attaching air turbine handpiece (according to ISO 9168) (C0, C1, C2Type)
  1. Remove the bur from the handpiece.
  2. Open the door of the unit, attach the handpiece to the joint, and tighten the nut securely. (Fig. 9)
  3. Close the door securely.

⚠️ CAUTION ⚠️
Be sure to remove the bur from the handpiece before connecting it to each joint.

*C2 type

Fig. 9
(2) Cleaning and Lubricating

1. Connect the power cord plug to the power supply. Turn on the power switch, and the power indicator will light.
2. Press the selector button number of the corresponding handpiece. First push will select "S", Short mode, second push "L", Long mode, and the third push "E", Extra Long mode. Those modes are indicated by the S, L and E lights.
3. When two or more handpieces are mounted, select the right mode for each handpiece.
4. Press the start key, and the Care 3 Plus automatically cleans and lubricates the handpieces. The mode indicator flushes during the cleaning and lubrication cycle.
5. When the cleaning and lubrication cycle is completed, the mode indicator turns on and the buzzer sounds to tell the completion of the cycle.
6. Pressing the air key blows out air only from the joint with the mode indicator lighting to purge excess oil to some extent. Do so as is required.

<table>
<thead>
<tr>
<th>Mode</th>
<th>Handpiece</th>
<th>Lubrication and cleaning time</th>
<th>Air time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short Mode</td>
<td>Air Turbine Handpiece</td>
<td>About 35 sec.</td>
<td>About 60 sec.</td>
</tr>
<tr>
<td>Long Mode</td>
<td>Contra Angle Handpiece</td>
<td>About 45 sec.</td>
<td>About 80 sec.</td>
</tr>
</tbody>
</table>
| Extra Long Mode | • All Handpieces (Make a selection when adequate lubrication and cleaning cannot be performed in the Short mode or Long mode.)
             | • Increasing Contra Angle Handpiece
             | • Recreasing Contra Angle Handpiece
             | • Air turbine Handpiece, Contra Angle Handpiece, and Straight Handpiece by other makers. | About 50 sec. | About 90 sec. |

* The figure in the parentheses, shows the total clean-lubricate-purge time.
* Lubrication and cleaning in the extra long mode may cause oil to remain in a large quantity in the handpiece.
* Some products may not be used. Please consult the manual.
• **Removing E-type handpiece (according to ISO 3964 type) (C1, C2, C3Type)**

Open the door after the mode indicator lights again and cleaning and lubrication cycle has completely finished. Pull out the handpiece in axial direction while pressing the fixing release button of the E-type joint. (Fig. 15)

![Fig. 15](image)

**CAUTION**

Wipe off the maintenance oil collected at the bottoms of the cleaning chamber and the door. The collected oil could leak from the bottom of the door. Dispose of wiped cotton cloth as medical waste according to the lows and regulations of your country.

6. **DOOR**

The door could be removed when cleaning or replacing the door gasket. To remove the door gasket, open the door, press the release button on right and remove the door. To mount the door, insert the pin into the left hole of the door and then insert the release button into the right hole until it locks. (Fig. 16)

![Fig. 16](image)

**CAUTION**

Remove and/or mount the door on a flat and stable surface with holding the body firmly.
(2) Replacing Oil Absorbent Sheet
After opening the door and removing used oil absorbent sheet, attach new oil absorbent sheet as shown in Fig. 19.
*Oil Absorbent Sheet Set (Pack of 20) :
Order No. Y900-186

\[ \text{CAUTION} \]
\[
\text{• Replace oil absorbent sheets approx. every 50 times of use at the condition of 3 handpieces at Long mode.}
\]
\[
\text{• Dispose used oil absorbent sheets as medical waste according to the laws and regulations of your country.}
\]

(3) Replacing O-ring (C1, C2, C3Type)
① Push out the worn O-ring with your thumb.
② Insert new O-ring in the O-ring groove.
*O-ring Set (Pack of 4) :
Order No. Y900-185

(4) Replacing Air Filter
① Pull out the air tube while pressing the connector ring. (Fig. 21)
② After removing the two screws, remove the air filter. (Fig. 22)
③ Attach a new air filter following the removal steps in reverse. When attaching the air tube, securely insert it into the connector as far as it will go.
*Air Filter : Order No. U508-352
⑧ Set them to main body with putting lock button and groove of main body together. Press case supporter up so that there is no gap with main body. Turn it to the right until lock button comes to the ▼ mark. (Fig. 29)
⑨ Put lock button up, then it is locked. (Fig. 30)
* Air Filter Element: Order No. U508-353

![Fig. 29](image1)

**CAUTION**

- Remove the air filter element after the air supply is stopped completely.
- Remove the air filter element, apply the maintenance oil to O-ring (for case).
- Replace the air filter element once every one to two years.

(6) Draining Air Filter

- When water eventually accumulates in the case, press the drain button at the lower part of the case to drain the air filter. (Fig. 31)
- In addition to the air filter, drain the air supply to this device (air compressor etc.) at least once a week.

![Fig. 31](image2)

**CAUTION**

The air supply (air compressor etc.) and air filter need to be clean and free from moisture. Drain the air compressor and air filter at least once a week. Moisture from the tank could mix in the maintenance oil and defeat the purpose of this device.
9. TROUBLESHOOTING

When trouble is found, check the following items again before asking repairs. If none of these are applicable or the trouble is not remedied even after action has been taken, a failure of this product is suspected. Contact your dealer.

<table>
<thead>
<tr>
<th>Trouble</th>
<th>Probable Cause and Check</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>The power does not turn on.</td>
<td>Is the power cord plug inserted into the outlet?</td>
<td>Insert the power cord plug into the outlet.</td>
</tr>
<tr>
<td></td>
<td>Is the power cord jack inserted into the inlet of the unit?</td>
<td>Insert the power cord jack into the inlet.</td>
</tr>
<tr>
<td></td>
<td>Is the power turned on?</td>
<td>Turn on the power.</td>
</tr>
<tr>
<td></td>
<td>Has the fuse burned?</td>
<td>Replace the fuse with recommended one.</td>
</tr>
<tr>
<td>The unit does not clean and lubricate.</td>
<td>Does the mode indicator light?</td>
<td>Press the corresponding selection button to light mode indicator.</td>
</tr>
<tr>
<td></td>
<td>Is the door open? (Does the error indicator light?)</td>
<td>Close the door securely.</td>
</tr>
<tr>
<td></td>
<td>Remove the air tube, press all three selection buttons, and press start button, Does the unit produce an operating sound? (not a buzzar)</td>
<td>If the unit produces an operating sound, it has no problem. Check the air tube or the air supply. If the unit produces no operating sound, it is in failure. Contact your dealer.</td>
</tr>
<tr>
<td>The unit does not lubricate and clean efficiently.</td>
<td>Is the air tube connected to the air connector securely?</td>
<td>Connect the air tube to the air connector securely.</td>
</tr>
<tr>
<td></td>
<td>Is the air pressure set within the specified range?</td>
<td>Set the air pressure between 0.35-0.6 MPa (3.5-6.0 kgf/cm²) (50-85 psi).</td>
</tr>
<tr>
<td></td>
<td>Is the mode set at the Short Mode?</td>
<td>Select an adequate mode according to the type of handpiece.</td>
</tr>
<tr>
<td></td>
<td>Is the handpiece connected securely?</td>
<td>Connect the handpiece securely.</td>
</tr>
<tr>
<td>Oil mist (misty solution) is released outside the unit.</td>
<td>Has an appropriate mode selected?</td>
<td>Select an adequate mode according to the type of handpiece.</td>
</tr>
<tr>
<td></td>
<td>Check if the bur insertion hole of the contra angle handpiece faces the door.</td>
<td>Insert the contra angle handpiece with the bur insertion hole toward the door side.</td>
</tr>
<tr>
<td>Error indicator blink.</td>
<td>Malfunction of motor.</td>
<td>Contact your dealer.</td>
</tr>
</tbody>
</table>
11. WARRANTY

Manufacturer warrants its products to the original purchaser against defects in material and workmanship under normal practices of installation, use and servicing. Maintenance oil, Mist Filter, Oil Absorbent sheet, and O-ring etc. are expendable components, and are not covered by this warranty.