

CYCLONE-VAC

manual















※ You have required to read this manual carefully before operating this machine.

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■ Symbol

Symbol	Description
	The serial number that identifies the object
	Manufacturer
	Caution
	Warning
	Refer to instruction manual
	Type B applied part
	WEEE Mark
	Keep dry
	This way up
	No hook
	Handle with care
	Stepping prohibited

2. Introduction

2-1. Overview

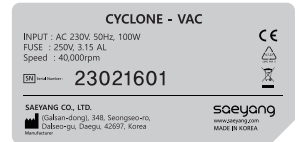
- CYCLONE-VAC controls the rotating body used to remove hard skin and calluses.
The rotation speed, rotation direction and suction power can be controlled.

2-2. Intended use

- This product is used in fields such as foot care and cuticle removal nail care.

2-3. Characteristic

- Type of protection against electric shock: Class I



2-4. Side effects and prohibitions

- This product has no known side effects as of date.
- The product's safety and effects on pregnant women and children have not been proven.

2-5. Precautions for handling and operation

- For safety, read and understand "Safety Precautions" thoroughly before use.
- Not only will these precautions help you use the product safely, but they will prevent harm you.

Class	Degree of Risk
Caution	- Indicates a potentially hazardous situation which could result in minor or moderate injury or damage to the device
Warning	- Indicates a potentially hazardous situation which could result in serious injury or damage to the device.
Note	- Product information to prevent product malfunctions and performance degradation

3. Safety (Cautions and Warning)

3-1. Caution

- Always consider the safety of the patient during treatment.
- Use the product for its intended uses only.
- Make sure the product is in good working condition prior to use.
- A test run must be performed before operation to check that the product is working properly.
- To prevent personal injury or product damage, it is necessary to check if the motor or handpiece has been turned off before changing the bur.
- No modification of this equipment is allowed.
- Do not use any organic solvent to clean the product.
- Handpieces must be properly maintained according to the specified maintenance schedule and inspected for signs of wear prior to each use.
- Keep sufficient distance between the product and other devices to prevent potential electromagnetic interference.
- -Connect the device to a power supply with a protective earth to reduce the risk of electric shock.

3-2. Warning

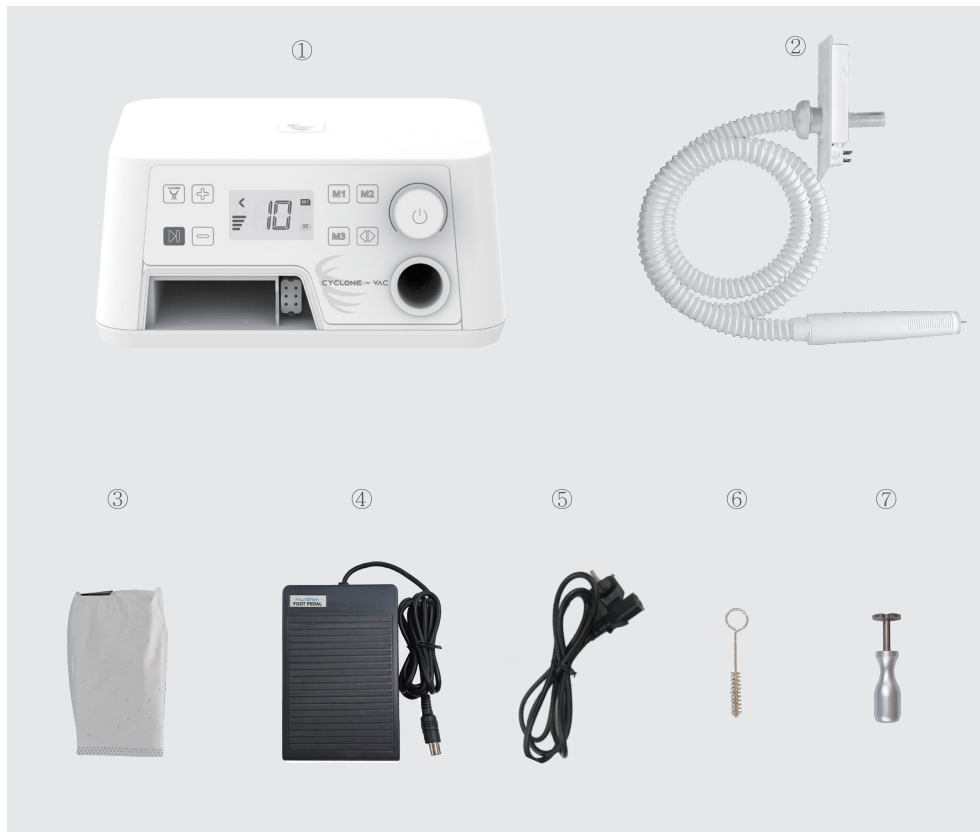
- Do not disassemble the product.
- Ensure that the product is not exposed to dust, sulfur or salt.
- Violent shocks, such as dropping the product, may cause product damage.
- If there is any abnormal condition including excessive vibration, noise, and heat while using the product, turn off the power immediately and contact your local dealer for repair.

3-3. Note

- When the product is not used for a long time or when a malfunction occurs, please turn off the power of the main device and disconnect the power.
- For details on the device, refer to the manual.
- No special training is required to operate this product.

4. Components name and function

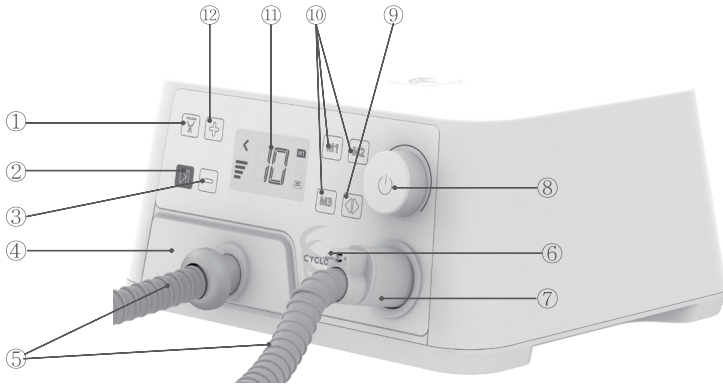
4-1. Component parts



No	Name	Remark	Notes
1	Control Unit	Control the rotation speed, rotation direction, etc.	
2	Handpiece	Transmission of rotational power to the bur and suction of dust	
3	Dust bag	Storing dust sucked through the handpiece	
4	Foot control	Handpiece speed control pedal	Option
5	Power cable	Supply power to the product	
6	Collet cleaning tool	Handpiece cleaning tool	
7	Bur disassembly tool	Tool to disassemble the bur from the handpiece	

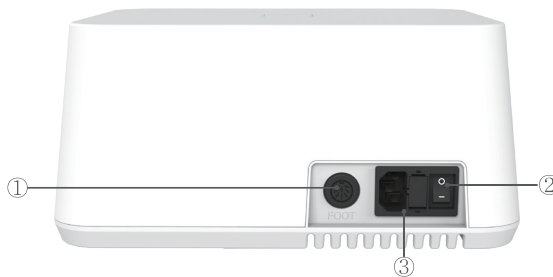
4-2. Part Introduction

1) Front



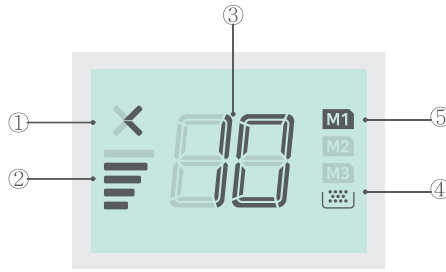
No	Name	Description
1	Suction On/Off Button	Suction Motor On/Off
2	Start & Stop button	Suction motor & handpiece start / stop
3	Suction power reduction button	Reduce the rotation speed of the suction motor
4	Dust bag cover	Dust bag mounting/cover
5	Suction hose	Suctioned foreign matter enters the dust bag
6	Pause	Handpiece and suction pause
7	Handpiece	Transmitting rotational power to the bur
8	Volume knob	LCD On/Off and rotation speed increase/decrease
9	Rotation direction change button	Handpiece rotation direction setting
10	Memory button	Save setting
11	LCD	Status display
12	Suction power increase button	Increase the rotation speed of the suction motor







2) Rear



No	Name	Funtion	Note
1	Foot control connector	Foot control connection	
2	Power On/Off switch	Product Power On/Off	
3	Power Inlet	Power cable connection	

3) LCD




Handpiece rotation direction  Right rotation  Left rotation	Handpiece rotation speed 	Suction power  00 ~ 40 OFF →	Dust bag notification  Dust bag replacement	Memory 
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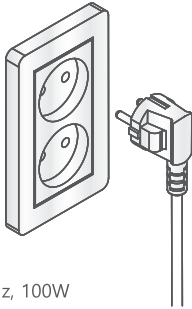
No	Name	Description
1	Handpiece rotation direction	Motor rotation direction display
2	Suction power	Suction motor power level indication
3	Handpiece rotation speed	Handpiece rotation speed display (X1000, 4000~40000)
4	Dust bag notification	Notification of dust bag replacement time
5	Memory	Memory number display

Note
<ul style="list-style-type: none"> - When the suction function is used for at least 10 hours, the dust bag replacement icon is displayed. - After replacing the dust bag, press the suction on/off button for 2 seconds to delete the dust bag replacement icon.

5. Installation

 Caution	
Installation Environment (Electrical Properties, Location Characteristics, Temperature, Humidity, Etc.)	Caution during Installation
<ul style="list-style-type: none"> - The control unit must be used in a place where indoor temperature is maintained at a proper level. (0~40°C) - Do not use the unit in a dirty or very hot and humid place. 	<ul style="list-style-type: none"> - The control unit must be installed on a flat surface substantially, not interfered by peripheral devices. - Avoid ventilation on the bottom plate of the control unit being blocked off. - Do not operate the product in a place where it is difficult to supply power or separate the power plug.
<ul style="list-style-type: none"> - Applied part : Bur (The bur is not provided separately.) 	

5-1. Main Power



① AC 230V, 50Hz, 100W

② 3.15AL 250V

① Fuse Box



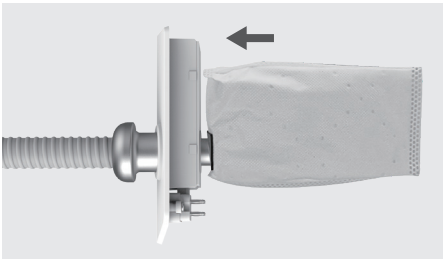
② Fuse



5-2. Connection

1) Handpiece, dust bag connection

- Connect the connector equipped with the dust bag to the suction port.



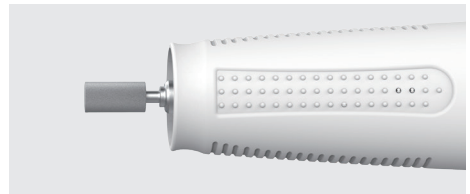
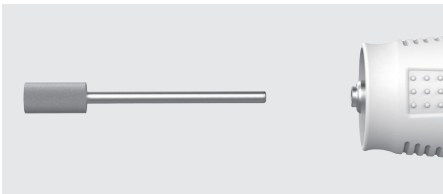
2) Power cord connection

- Connect the power cord to the back of the product.



5-3. Bur assembly

-As shown in the picture below, assemble the bur to be used to the handpiece.

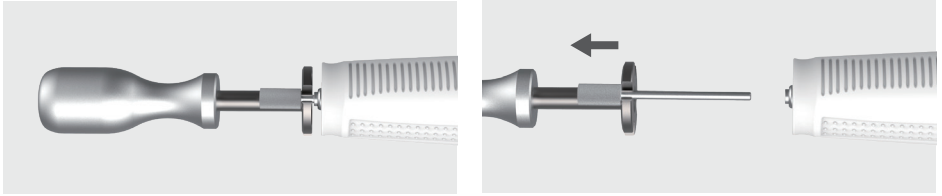


Caution

- Before working, check the maximum speed allowed by the manufacturer for the bur you are using and observe it.
- Exceeding the maximum speed can cause vibration and malfunction of the handpiece, and can cause injury.

5-4. Bur disassembly

-As shown in the picture below, disassemble the bur using the tool.



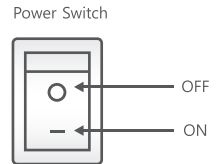
6. Operation

6-1. Preparation before operation

- Check that the components are connected correctly.




6-2. Power On/Off

- Turn on the power switch to turn on the power of the product.
- Turn off the power switch to cut off the power of the product.
- If you press and hold the volume knob, only the LCD can be turned on and off.



6-3. Setting

1) Suction On/Off and Power Setting

- Press the suction On/Off button  to determine whether or not to use the suction.
- Press the suction increase button  or decrease button  to select the desired power.

2) Rotation speed setting

- Rotate the volume knob to set the rotation speed.
- Rotation speed range: 4,000~40,000rpm



3) Rotation direction setting

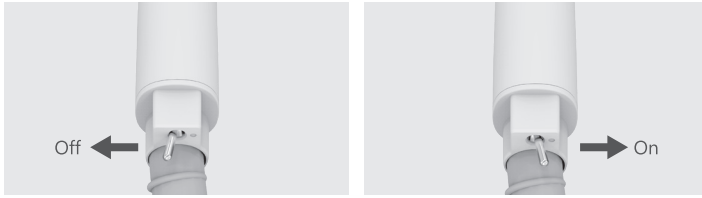
- Press the rotation direction change button  to select the rotation direction.

4) Memory settings

- Press the memory button  for 2 seconds to save the set value.
- Press the memory button  to recall the saved settings.

6-4. Handpiece, suction operation/stop

- After setting is finished, press the Start & Stop button  to operate.
- If you press the Start & Stop button  during operation, it stops.
- If the switch at the back of the handpiece is turned off during the operation of the handpiece and suction, the handpiece and suction are temporarily stopped and the rotation speed icon on the LCD blinks.
- When the off switch is turned on, the handpiece and suction operate.



- Suction On/Off & Suction Power, Rotation Direction, Memory, etc. can be operated while the handpiece is in operation

⚠ Caution

- If an abnormal operation occurs during operation, stop using it immediately and cut off the product's power.

6-5. Using Foot Control

- When the Foot Control is installed, the handpiece and suction can be turned on/off with the Foot Control.
- While using Foot Control, you can operate handpiece pause switch or suction On/Off & suction power, rotation direction, memory, etc.

Note

- Foot control: It is possible to adjust the speed by setting the rotation speed of the set handpiece to the maximum speed.

7. Maintenance

7-1. Limitations on Reprocessing

- After using the product, all components must be cleaned.

Point of use processing

- After using the product, remove foreign substances on all components immediately with a soft cloth.
- Make sure that foreign substances on the product do not dry.

Transport

- After using the product, place it immediately in an uncontaminated area.
- If the product cannot be moved, clean the product immediately.

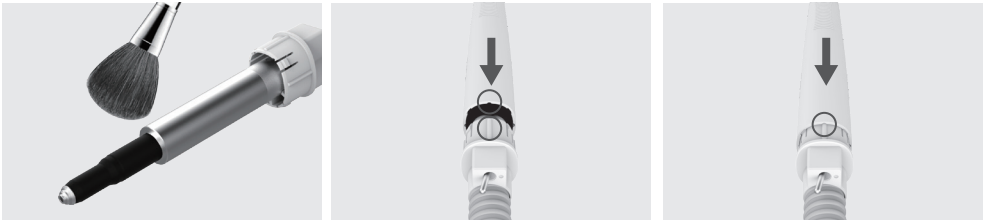
Preparation for cleaning

- Separate the handpiece, hose and motor respectively.

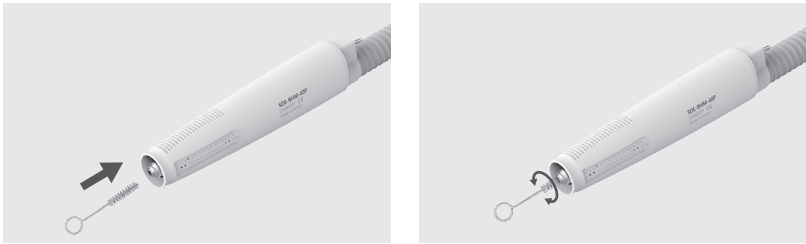


Method of cleaning

- Remove foreign substances from the handpiece case and motor with a soft brush.
- Assemble after checking that the part marked on the case at the bottom of the motor part matches the case of the handpiece.



- Use a collet cleaning tool to remove foreign substances inside the collet chuck of the motor.



Caution

- Do not use boiling water, chemicals, wire brushes or ultrasonic waves to clean the handpiece.

Visual Inspection

- Check appearance for corrosion.
- Check for visible foreign matter.

7-2. Storage

- After cleaning, assemble the product again and store it in a designated or clean place.

7-3. Dust bag replacement

- When the dust bag replacement icon is lit on the LCD, replace the dust bag as shown below.
- After replacing the dust bag, press and hold the suction on/off button for 2 seconds to make the dust bag replacement icon disappear.

Caution

- Replace and clean the dust bag after using the product for about 10 hours.
- If you use the dust bag without replacing it after the dust bag replacement notification is displayed, product defects may occur.

8. Trouble shootings

8-1. Error messages

- If an operational problem occurs, the display will show an error code allowing immediate problem diagnosis.

Error Code	Description of Error	Countermeasure
E1	Handpiece connection problem	Unplug the hose and reconnect
		If the solution is not resolved, contact the nearest dealer.

9. Technical data

9-1. Product specification

Category	Standard	Specification
Handpiece & Hose	Dimensions(WXD _X H)	168mmx27mmx32mm
	Weight	364g
	Hose length	1450mm
Control Unit	Dimensions(WXD _X H)	291mmx263mmx135mm
	Weight	2400g
	Max rpm	40,000rpm
	Power input	AC 230V, 50Hz, 100W
Dust bag	Dimensions(WXD)	137mmx67mm
	Weight	5g
Foot Pedal (FS-60)	Dimensions(WXD _X H)	170mmx110mmx58mm
	Weight	558g
Power cable	Cable length	1800mm
	Weight	186g
Collet cleaning tool	Dimensions(LX Φ)	45mmx Φ 4
	Weight	0.1g
Bur disassembly tool	Dimensions(LX Φ)	77mmx Φ 19.3
	Weight	37g

9-2. Environmental conditions

	Temperature	Humidity	Atmospheric pressure
USE	0~40°C	10~75RH	700~1,060hpa
Store	-20°C ~ 40°C	10~75RH	700~1,060hpa
Transportation	-20°C ~ 40°C	10~75RH	700~1,060hpa

10. Spare parts and A/S

10-1. Spare parts List

No	Name	Purchase Location
1	Dust bag	You can purchase it from the nearest dealer or store.
2	Foot control	
3	Collet cleaning tool	

10-2. A/S

- If you suspect product damage or malfunction, contact the store or the nearest dealer.
- Saeyang Microtech Co., Ltd. may provide information such as circuit diagrams, component lists, and descriptions that will help service providers repair the product upon request.

10-3. Warranty

- All item of this unit are guaranteed for 12 months from the date of purchase.
- This guarantee expressly excludes any consequential failure or damage caused by neglect handling, incorrect fitting and misuse.

11. Disposal procedure

11-1. Disposal of the device

- Follow your country-specific law, directives, standards and guidelines for the disposal of used electrical devices.

11-2. Disposal of the packaging material

- All packaging material had been selected according to environmentally compatible and disposal aspects and can be recycled.

saeyang

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