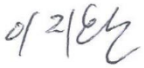




- Warning -

To use this product safely and accurately
 Be sure to read this before installing.
 Please use it after you have understood it enough.

| Rev | Creation date | Page | Creation content |
|-----|---------------|---------|--|
| 0 | 2019.03.08 | ALL | First Prepared |
| 1 | 2020.02.04 | ALL | Add insufficient information |
| 2 | 2020.10.19 | 36 - 48 | Revision for '5. Cleaning, disinfection and sterilization methods' |
| 3 | 2020.11.11 | ALL | Revision for the design change |
| 4 | 2021.03.09 | ALL | Add Insufficient Information |

| Part | Name | Position | Date | Signature |
|-------------|----------------|-------------------|------------|---|
| Prepared by | Ji-hwan Lee | Assistant Manager | 2021.02.23 |  |
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Megagen Implant co.Ltd

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Symbol Description

* Check the matters below before you read this user manual

| Symbol | Description |
|--|---------------------------------------|
|  | Caution |
|  | Warning |
|  | Mandatory Action |
|  | Prohibition |
|  | Refer to instruction manual / booklet |
|  | Manufacturer |








Description des symboles (Français)

* Vérifiez les points ci-dessous avant de lire ce manuel d'utilisation

| Symbol | Description |
|--|---|
|  | Mise en garde |
|  | Attention |
|  | Action obligatoire |
|  | Interdiction |
|  | Reportez-vous au manuel d'instructions / livret |
|  | fabricant |

Symbol Description

* Check the matters below before you read this user manual

| Symbol | Description |
|---|---|
|  | Date of manufacture |
|  | European Authorized Representative |
|  | Serial Number |
|  | Type B Applied Part |
|  | CE conformity marking |
|  | Waste Electrical and Electronic Equipment symbol |
|  | MEDICAL — GENERAL EQUIPMENT AS TO ELECTRICAL SHOCK, FIRE AND MECHANICAL HAZARDS ONLY IN ACCORDANCE WITH ANSI/AAMI ES60601-1 (2005) + AMD 1 (2012) CAN/CSA-C22.2 No. 60601-1 (2014) IEC 80601-2-60:2019 |

INTRODUCTION

- This user manual is for the Dental Unit N2 of Megagen Implant Co., Ltd. and issued on 2019. 03. 08
- The pictures on this user manual are drawn for descriptions, which may be partially different from the actual items.
- Refer to "Caution and Notice signs" and "Matters to check before reporting on failure" at the back of the user manual to recheck the failure of the product before requesting service.
- Be sure to read "Matters requiring attention for safety" before using the product to ensure correct product use.
- The user shall assume responsibility for injury or product damage occurring due to failure to follows this user manual.
- The exterior design and the product size may be changed without prior notice to improve the product's performance.

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N2

1. Safety Precautions



- Use for rated voltage .
- Do not install chemicals in storage or gas.
- This machine will not be modified.



- Be sure to install the ground wire.
(Failure to install a ground wire may result in an electric shock.)
- It should be installed out of the water.
- Not used on Pacemaker patients.



- Do not damage or process the power cord or place heavy objects.
(Code may be broken, causing fire and electric shock.)
- Turn off the power cord when not in use for a long time.
- Do not place other objects within the scope of the care so as not to disturb the care.
- Handpiece must be sprayed before treatment and sterilized with high-temperature, high-pressure sterilizing agent to prevent infection.
- Sterilize the syringe tip with a disinfectant at 132°C for 5 minutes.
- Disinfect the end of the suction device after one use.
- The tubing on the suction apparatus is cleaned and sterilized after each treatment.
- Do not use the device except for experienced personnel.
- During installation, the pressure in the main water pressure gauge is maintained at 2.5kgf/cm² .
- During installation, the pressure in the main air pressure gauge is kept at 5.5kgf/cm² .
- Compressed air, water supply, power and drainage are connected according to their intended use.

1. N'ouvrez pas le couvercle de manière arbitraire par l'utilisateur. (Français)



- Utiliser pour la tension nominale.
- N'installez pas de produits chimiques dans le stockage ou le gaz.
- Cette machine ne sera pas modifiée.



- Assurez-vous d'installer le fil de terre.
(Le fait de ne pas installer un fil de terre peut entraîner un choc électrique.)
- Il doit être installé hors de l'eau.
- Non utilisé sur les patients avec stimulateur cardiaque.



- N'endommagez pas, ne traitez pas le cordon d'alimentation et ne placez pas d'objets lourds.
(Le code peut être cassé, provoquant un incendie et un choc électrique.)
- Éteignez le cordon d'alimentation lorsqu'il n'est pas utilisé pendant une longue période.
- Ne placez pas d'autres objets dans le périmètre des soins afin de ne pas perturber les soins.
- La pièce à main doit être pulvérisée avant le traitement et stérilisée à haute température et haute pression agent stérilisant pour prévenir l'infection.
- Stériliser l'embout de la seringue avec un désinfectant à 132 ° C pendant 5 minutes.
- Désinfectez l'extrémité du dispositif d'aspiration après une utilisation.
- La tubulure de l'appareil d'aspiration est nettoyée et stérilisée après chaque traitement.
- N'utilisez pas l'appareil sauf pour du personnel expérimenté.
- Lors de l'installation, la pression dans le manomètre principal d'eau est maintenue à 2,5 kgf / cm².
- Pendant l'installation, la pression dans le manomètre principal est maintenue à 5,5 kgf / cm².
- L'air comprimé, l'alimentation en eau, l'alimentation électrique et le drainage sont raccordés en fonction de leur utilisation prévue.

Matters requiring attention regarding power supply

 **You may lose your life or encounter serious injury if you do not observe the instruction.**

- Wipe off foreign substances (dust, water) on the power plug terminal and contact part with dry cloth regularly.
- Do NOT pull the power code (wire) from the power plug.
- Never bend, pull excessively, twist, or tie the power code. Never hang it on a metal part, put a heavy object on it, insert it in between, or push it in behind the product.
- Connect the power plug to the tip of the plug socket firmly, do NOT use damaged power plug, or power code or loose plug socket.
- WARNING: To avoid the risk of electric shock, this equipment must only be connected to a supply mains with protective earth.

 **The equipment may be damaged if you do not follow the instruction.**

- Disconnect the power plug if you will not use it for a long time, or in case of thunder and lightning.
- Failure to do so may cause electric shock or fire.

Questions nécessitant une attention particulière concernant l'alimentation électrique (Français)



Vous pouvez perdre la vie ou subir des blessures graves si vous ne respectez pas les instructions.

- Essuyez les corps étrangers (poussière, eau) sur la borne de la prise d'alimentation et touchez la partie avec un chiffon sec régulièrement.
- NE retirez PAS le code d'alimentation (fil) de la prise d'alimentation.
- Ne jamais plier, tirer excessivement, tordre ou nouer le code d'alimentation. Ne jamais l'accrocher à une pièce métallique, mettre un lourd objet dessus, insérez-le entre les deux ou poussez-le derrière le produit.
- Branchez fermement la fiche d'alimentation à l'extrémité de la prise de courant, n'utilisez PAS d'alimentation endommagée, fiche, ou code d'alimentation ou prise mal fixée.
- AVERTISSEMENT: pour éviter tout risque d'électrocution, cet équipement ne doit être connecté qu'à un réseau d'alimentation avec terre de protection.



L'équipement peut être endommagé si vous ne suivez pas les instructions.

- Débranchez la fiche d'alimentation si vous ne l'utilisez pas pendant une longue période, ou en cas de tonnerre et de foudre.
- Le non-respect de cette consigne peut provoquer un choc électrique ou un incendie.

Related to installation



The following sign for prohibited action emphasizes the Item that should not be done.

- Do NOT use this product in conditions other than the indicated power supply voltage [V~], frequency [Hz] and acceptable current [A] (or power consumption) specifications.
- Have an exclusive power circuit ready for each machine never share or divide the power with that of another machine. Overheat and short-circuit may occur, which may cause accident or failure.
- Do NOT install the product in a place where water splashes or in one with humidity or moisture. Overheat and short-circuit may occur, which may cause accident or failure.
- Do NOT install the product in a place where chemicals are stored or one where gas is generated. Electric shock or short circuit may occur, which may cause accident or failure.
- Put the product in a place where its power code, ground wire and wire for Foot Controller will not be damaged, avoid places like door or passage. Electric shock or short circuit may occur, which may cause accident or failure.
- Do NOT use environmentally regulated substances.
- Use purified water for that flowing into the chair.



You may lose your life or sustain serious injury if you do not observe the instruction.

- Do NOT install the equipment in an unstable place with incline, vibration, or shock. Inappropriate installation may cause malfunction or failure.
- Do NOT use in a place negatively influenced by air pressure, temperature, humidity, ventilation, sunlight, dust, and air containing salt. Inappropriate installation may cause malfunction or failure.
- Be sure to perform earthing for safety.
- Do NOT earth to gas pipes, plastic water pipes, or telephone line. This may cause electric shock, fire, failure, or explosion.
- Be sure to use ground plug socket.
- Be sure to perform earthing separately if the internal wiring of the ground terminal is not connected, even if the plug socket has a ground terminal.
- Installation, modification, adjustment, exchange, maintenance, and repair of the product shall be performed by an engineer who has been trained by MEGAGEN IMPLANT Co., Ltd. or the employee of the employee of official distributors certified by MEGAGEN IMPLANT Co., Ltd.
- When the chair and backboard are raised to the maximum, the amount of oil must be at least 5cm from the bottom.
- Do NOT open the cover arbitrarily by the user.

Liés à l'installation (Français)

Le signe suivant pour une action interdite met l'accent sur l'élément qui ne doit pas être fait.

- N'utilisez PAS ce produit dans des conditions autres que les spécifications de tension d'alimentation [V ~], de fréquence [Hz] et de courant acceptable [A] (ou de consommation électrique) indiquées.
- Préparez un circuit d'alimentation exclusif pour chaque machine, ne partagez ou ne divisez jamais la puissance avec celle d'une autre machine. Une surchauffe et un court-circuit peuvent se produire, ce qui peut provoquer un accident ou une panne.
- N'installez PAS le produit dans un endroit où de l'eau éclabousse ou dans un endroit avec de l'humidité ou de l'humidité. Une surchauffe et un court-circuit peuvent se produire, ce qui peut provoquer un accident ou une panne.
- N'installez PAS le produit dans un endroit où des produits chimiques sont stockés ou dans un endroit où du gaz est généré. Un choc électrique ou un court-circuit peut se produire, ce qui peut entraîner un accident ou une panne.
- Placez le produit dans un endroit où son code d'alimentation, le fil de terre et le fil de la pédale de commande ne seront pas endommagés, évitez les endroits comme la porte ou le passage. Un choc électrique ou un court-circuit peut se produire, ce qui peut entraîner un accident ou une panne.
- N'utilisez PAS de substances réglementées pour l'environnement.
- Utilisez de l'eau purifiée pour celle qui coule dans la chaise.



Vous risquez de perdre la vie ou de subir des blessures graves si vous ne respectez pas les instructions.

- N'installez PAS l'équipement dans un endroit instable avec une pente, des vibrations ou des chocs. Une installation inappropriée peut entraîner un dysfonctionnement ou une panne.
- NE PAS utiliser dans un endroit influencé négativement par la pression de l'air, la température, l'humidité, la ventilation, la lumière du soleil, la poussière et l'air contenant du sel. Une installation inappropriée peut entraîner un dysfonctionnement ou une panne.
- Veillez à effectuer la mise à la terre pour des raisons de sécurité.
- NE PAS mettre à la terre les conduites de gaz, les conduites d'eau en plastique ou la ligne téléphonique. Cela peut provoquer un choc électrique, un incendie, une panne ou une explosion.
- Veillez à utiliser une prise de terre.
- Veillez à effectuer la mise à la terre séparément si le câblage interne de la borne de terre n'est pas connecté, même si la prise de courant a une borne de terre.
- L'installation, la modification, le réglage, l'échange, la maintenance et la réparation du produit doivent être effectués par un ingénieur formé par MEGAGEN IMPLANT Co., Ltd. ou l'employé de distributeurs officiels certifiés par MEGAGEN IMPLANT Co., Ltd.
- Lorsque la chaise et le dossier sont relevés au maximum, la quantité d'huile doit être à au moins 5 cm du bas.
- N'ouvrez PAS le couvercle de manière arbitraire par l'utilisateur

Matters requiring attention regarding the operation of the equipment



The following sign for prohibited action emphasizes the Item that should not be done.

- Do NOT put an object or your finger or foot in the part or range of operation of the body such as under the Seat or Backrest joint. If caught while in operation, you may get injured or the equipment may get damaged or fail.
- Never apply excessive load to the Table Arm, Lamp Arm, put something heavy, or lean or sit on the seat and tips of the Backrest and Headrest or Table, Assistant Tray, and Mouse Tray. The reversion and damage of the equipment may cause injury or failure.
- This Product is only to be used in the field of dentistry. It is forbidden to use this product for anything other than the field of dentistry.



The equipment may be damaged if you do not follow the instruction.

- While operating the equipment, observe the following and check if it is safe.
- Inappropriate operation may cause malfunction or failure.
- Do NOT install the equipment in an unsafe place with Incline, vibration, and shock.
- The equipment should not be operated by a person other than a qualified personnel in charge.
- Do NOT take motion or position that may put the patient at risk.
- Do NOT put your finger, part of your body, or baggage in or around the moving part of the main body.
- Do NOT allow more than two persons on the Seat. (e.g. holding a child while undergoing treatment).
- Do NOT allow any person who is not involved in the treatment near the equipment. (infant, etc.)
- Do NOT do any risky act other than those mentioned above.
- If there is risk such as collision while operating the Seat of the main body, perform emergency stop urgently as follows.
- Press one of the keys to operate the chair on the Doctor's Side Table Control panel.
- Press one of the keys to operate the chair on the Assistant Side Table Control panel.
- WARNING: Do not modify this equipment without authorization of the manufacturer.
- The responsibility for use and maintenance lies with the user(hospital or clinic, etc.) and only dentists and dental hygienists are recommended to use the product.
- Refilling or injecting distilled water over the scale marking the limit of the distilled water bottle can cause damage to the product or the risk of electric shock and fire.
- Check the tube connection state of all instruments before using the device.
- Expel water from the device pipe for about 2 ~ 3 minutes every day before starting treatment.
- Supply spittoon with water a few times.

Questions nécessitant une attention particulière concernant le fonctionnement de l'équipement (Français)



Le signe suivant pour une action interdite met l'accent sur l'élément qui ne doit pas être fait.

- NE placez PAS d'objet ou votre doigt ou pied dans la partie ou la plage de fonctionnement du corps, comme sous l'articulation du siège ou du dossier. Si vous êtes coincé pendant le fonctionnement, vous pouvez vous blesser ou l'équipement peut être endommagé ou tomber en panne.
- N'appliquez jamais de charge excessive sur le bras de la table, le bras de la lampe, ne posez pas d'objets lourds, ne vous penchez pas ou ne vous asseyez pas sur le siège et les extrémités du dossier et de l'appui-tête ou de la table, du plateau d'assistance et du plateau de la souris. La réversion et l'endommagement de l'équipement peuvent entraîner des blessures ou des pannes.
- Ce produit ne doit être utilisé que dans le domaine de la dentisterie. Il est interdit d'utiliser ce produit pour autre chose que le domaine de la dentisterie.



L'équipement peut être endommagé si vous ne suivez pas les instructions.

- Lors de l'utilisation de l'équipement, observez ce qui suit et vérifiez s'il est sûr.
- Un fonctionnement inapproprié peut entraîner un dysfonctionnement ou une panne.
- N'installez PAS l'équipement dans un endroit dangereux avec inclinaison, vibrations et chocs.
- L'équipement ne doit pas être utilisé par une personne autre qu'un personnel qualifié en charge.
- Ne prenez PAS de mouvement ou de position qui pourrait mettre le patient en danger.
- Ne placez PAS votre doigt, une partie de votre corps ou des bagages dans ou autour de la partie mobile du corps principal.
- Ne laissez PAS plus de deux personnes sur le siège. (par exemple, tenir un enfant pendant le traitement).
- Ne laissez AUCUNE personne non impliquée dans le traitement à proximité de l'équipement. (bébé, etc.)
- Ne faites aucun acte à risque autre que ceux mentionnés ci-dessus.
- En cas de risque de collision lors de l'utilisation du siège du corps principal, effectuez un arrêt d'urgence comme suit.
- Appuyez sur l'une des touches pour faire fonctionner le fauteuil sur le panneau de commande de la table d'appoint du médecin.
- Appuyez sur l'une des touches pour faire fonctionner le fauteuil sur le panneau de commande de la table d'appoint de l'assistant.
- AVERTISSEMENT: ne modifiez pas cet équipement sans l'autorisation du fabricant.
- La responsabilité de l'utilisation et de l'entretien incombe à l'utilisateur (hôpital ou clinique, etc.) et seuls les dentistes et les hygiénistes dentaires sont invités à utiliser le produit.
- Le remplissage ou l'injection d'eau distillée au-dessus de l'échelle marquant la limite de la bouteille d'eau distillée peut causer des dommages au produit ou des risques d'électrocution et d'incendie.
- Vérifiez l'état de la connexion du tube de tous les instruments avant d'utiliser l'appareil.
- Expulsez l'eau du tuyau de l'appareil pendant environ 2 à 3 minutes chaque jour avant de commencer le traitement.
- Alimentez le crachoir plusieurs fois avec de l'eau.

Matters requiring attention regarding the operation of the equipment



The equipment may be damaged if you do not follow the instruction.

- Both patient and operator should take caution while the product is operating.
- Avoid acts like getting on and jump down the product.
- Do not add load heavier than 30N (3kgf) on the Doctor's Side Table.
- Connecting inappropriate medical system equipment to the medical device may cause electric shock.
- To connect an IT device to the medical device, follow the regulations of EN 60601-1.
- Do NOT attach sticker or adhesive tape to the Instrument Tube. The instrument Tube may be torn.
- Cleanse the water and air pipes or discharge water or air before and after using the equipment during weekends or holidays when you will not use it.
- Sterilize thoroughly.
- To change all instrument tips or bars, be sure to do so when they are stopped. Replacement during operation may cause unexpected accident and risk.
- Using an uncertified product may cause unexpected accident and risk.
- When putting each instrument into the holder, do so slowly and surely.
- Do NOT apply heavy shock or load to the Water Supply Device. Likewise, never operate or disassemble it by force.
- This product meets the application requirements IEC 60601-1-2 (EN 60601-1-2) of the electromagnetic field.
- Try not to use cell phones in hospital or dental offices.
- Turn off electric equipment such as computer storage media or portable hearing aids during treatment.
- When high frequency electronic equipment is used, make sure to turn off the main power of the dental unit chairs.
- Otherwise unexpected accidents or failures of the product may occur due to malfunction.



You may lose your life or sustain serious injury if you do not observe the instruction.

- When reaching your hand toward the Table or Instrument, your hand or sleeve may get caught in the instrument housed on the holder, which may lead to injury or infection. Take special caution of instrument installed in the holder when reaching your hand toward the Table or Instrument.
- To disassemble it for sterilization, or repair, be sure to turn the Main Power OFF; disassemble only after the equipment has sufficiently cooled down.

Questions nécessitant une attention particulière concernant le fonctionnement de l'équipement (Français)



L'équipement peut être endommagé si vous ne suivez pas les instructions.

- Le patient et l'opérateur doivent faire preuve de prudence pendant le fonctionnement du produit.
- Évitez les gestes comme monter et sauter sur le produit.
- N'ajoutez pas de charge plus lourde que 30N (3kgf) sur la table d'appoint du médecin.
- La connexion d'un équipement du système médical inapproprié au dispositif médical peut provoquer un choc électrique.
- Pour connecter un appareil informatique à l'appareil médical, suivez les réglementations de la norme EN 60601-1
- Ne collez PAS d'autocollant ou de ruban adhésif sur le tube de l'instrument. Le tube de l'instrument est peut-être déchiré.
- Nettoyez les conduites d'eau et d'air ou évacuez l'eau ou l'air avant et après l'utilisation de l'équipement pendant les week-ends ou les jours fériés lorsque vous ne l'utiliserez pas.
- Stérilisez soigneusement.
- Pour changer toutes les pointes ou barres d'instruments, assurez-vous de le faire lorsqu'elles sont arrêtées. Le remplacement pendant le fonctionnement peut entraîner des accidents et des risques inattendus.
- L'utilisation d'un produit non certifié peut entraîner des accidents et des risques inattendus.
- Lorsque vous placez chaque instrument dans le support, faites-le lentement et sûrement.
- N'appliquez PAS de chocs ou de charges importantes sur le dispositif d'alimentation en eau. De même, ne jamais le faire fonctionner ou le démonter par la force.
- Ce produit répond aux exigences d'application CEI 60601-1-2 (EN 60601-1-2) du champ électromagnétique.
- Essayez de ne pas utiliser de téléphones portables dans les hôpitaux ou les cabinets dentaires.
- Éteignez les équipements électriques tels que les supports de stockage informatiques ou les appareils auditifs portables pendant le traitement.
- Lors de l'utilisation d'un équipement électronique haute fréquence, assurez-vous de couper l'alimentation principale des fauteuils d'unité dentaire.
- Sinon, des accidents ou des pannes imprévus du produit peuvent survenir en raison d'un dysfonctionnement



Vous risquez de perdre la vie ou de subir des blessures graves si vous ne respectez pas les instructions.

- Lorsque vous atteignez votre main vers la table ou l'instrument, votre main ou votre manche peut se coincer dans l'instrument logé sur le support, ce qui peut entraîner des blessures ou des infections. Faites particulièrement attention à l'instrument installé dans le support en atteignant votre main vers la table ou l'instrument
- Pour le démonter pour la stérilisation ou la réparation, assurez-vous de couper l'alimentation principale; démonter seulement après le l'équipement a suffisamment refroidi.

Matters requiring attention regarding the operation of the equipment**You must follow this instruction.**

- The waste generated from the product should be discarded or recycled to prevent environmental pollution. Please comply with the pertinent country's or local regulations for the details on waste.
- Please use the Clean Head System Hand-piece for infection prevention.
- The user must wear personal protective equipment to prevent the infection during dental procedures.(e.g. gowns, lab coats, gloves, masks, and protective eyewear or face shields)
- Recommended that the product use in the combination with anti suction equipment and amalgam separator device.
- Megaegn Implant Co., Ltd. does not provide the Hand-piece and the Scaler. And recommend that user read the manuals of the manufacturer before to the using the Hand-piece and the Scaler. Also, risk/side effects associated with the Hand-piece and the Scaler is not responsible.

Questions nécessitant une attention particulière concernant le fonctionnement de l'équipement(Français)



Vous devez suivre cette instruction.

- Les déchets générés par le produit doivent être jetés ou recyclés pour éviter la pollution de l'environnement. Veuillez vous conformer aux réglementations nationales ou locales en vigueur pour plus de détails sur les déchets.
- Veuillez utiliser la pièce à main Clean Head System pour la prévention des infections.
- L'utilisateur doit porter un équipement de protection individuelle pour prévenir l'infection pendant les procédures dentaires (par exemple, blouses, blouses de laboratoire, gants, masques et lunettes de protection ou écrans faciaux)
- Recommandé que le produit utilise en combinaison avec un équipement anti-aspiration et un dispositif de séparation d'amalgame.
- Megaegn Implant Co., Ltd. ne fournit pas la pièce à main et le détartreur. Et recommandez à l'utilisateur de lire les manuels du fabricant avant d'utiliser la pièce à main et le détartreur. De plus, les risques / effets secondaires associés à la pièce à main et au détartreur ne sont pas responsables.

2. Intended use and conditions of use

2.1. Intended use

: The N2 is intended to supply power to and serve as a base for other dental devices and accessories by providing air, water, vacuum and low voltage electrical power to dental instruments and dental handpieces. The N2 is designed for use by a trained professional in the field of general dentistry.

2.2. Safety

1) Classification of equipment

- ① Type of protection against electric shock : Class I Equipment
- ② Degree of protection against electric shock : Type B Applied part
- ③ Not defibrillation-proof applied parts
- ④ Classification according to degree of protection against ingress of water and particulate matter as per IEC 60529
 - Main Unit : IPX0
 - Foot Switch : IPX1
- ⑤ User Sterile product (Non-sterile product at shipment)
- ⑥ Not for use in an oxygen rich environment
- ⑦ Classification according to mode of operation : Duty Cycle (60 s On / 600 s OFF)

2) Safety device

① Electrical safety

- ▶ Installation of a safety device by a fuse in a overload circuit and PCB circuit

② Safety for patient's risk

- ▶ The chair operation is stopped if the foot pedal is pressed.
- ▶ The chair operation is stopped if the control switch is pressed.
- ▶ The chair is moved up if you lift the backrest when there is a risk of obstruction or malfunction while the chair is moving automatically.

2.3. Environmental conditions

1) Conditions

| Environment | Temperature | Humidity | Atmospheric Pressure |
|-------------|----------------|-------------|----------------------|
| Operation | 10 °C ~ 35 °C | 20 % ~ 80 % | 860 hPa ~ 1,060 hPa |
| Storage | -10 °C ~ 35 °C | 10 % ~ 90 % | 500 hPa ~ 1,060 hPa |
| Shipment | -10 °C ~ 60 °C | 30 % ~ 85 % | 500 hPa ~ 1,060 hPa |

2) Install it outside of water and use it.

- ### 3) Bad by air containing air pressure, temperature, humidity, ventilation, sunlight, dust, salt and ion Installs and uses in locations that exclude potential impact.

4) Do not install chemicals in storage or gas.

2.4. Electrical rating

1) Direct current category : Single phase exchange

2) Input : AC 100-120 V, 50/60 Hz / AC 220-240 V, 50/60 Hz

3) Power consumption : 1000 VA

3. Product Description

3. 1 Introduction

This product is a dental care unit and chair with the necessary equipment for medical practice between physician and patient.

This product consists of a medical device and a chair for dental care.

The medical device consists of a typewriter, an doctor's table, a control panel, an dashboard, an dashboard holder, and a light.

The chair includes head restraints, back plates, arm rests, seats, bases, foot switches, etc.

This is a dental care system consisting.

For safety reasons, when the chair is lowered, the cuspidate also stops when a foreign object touches the bottom. (Safety switch option_Backrest cover)





The unit supplies water and compressed air to the tools necessary for doctors to treat patients' teeth or lesions, and the cuspidance is equipped with a tube to inhale foreign substances or to rinse the mouth.


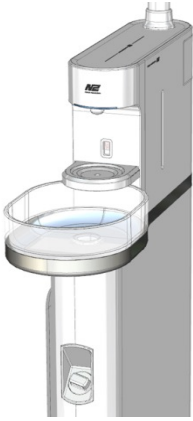




This device cannot be used independently. The office should already be supplied with compressed air and water. Water and suction cups are required for use.

3. 2 Characteristics

- 1) Ergonomic design for patient and physician comfort (total injection control system).
- 2) The glass is filled with water automatically, photo Sensor.
- 3) Impact absorption system for smoother movement. (Shock Absorbing System)
- 4) Liquid crystal reverse light system with balanced luminance, no flicker after prolonged use.
- 5) Hydraulic cylinder that can be adjusted smoothly for a wide range of heights.
- 6) Interlock function for user's safety
- 7) Adopt IMD Panel with curve on the control panel.
- 8) Improved patient convenience by applying an assist table to the tissue holder and the top of the unit.
- 9) Unit separation type minimizes shaking during chair operation.
- 10) Only the first handpiece taken out is activated to prevent malfunction of handpiece when one or more handpieces are taken out from the instrument holder.

3. 3 N2 PART Characteristics

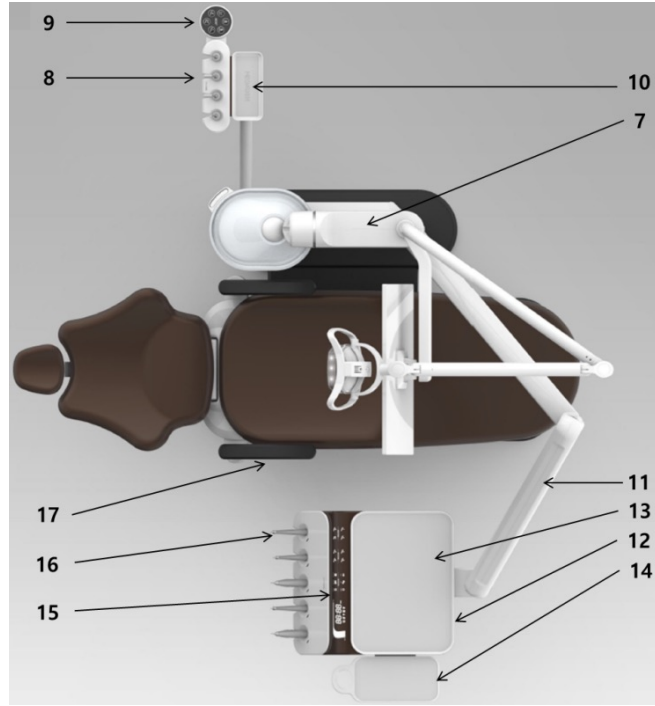
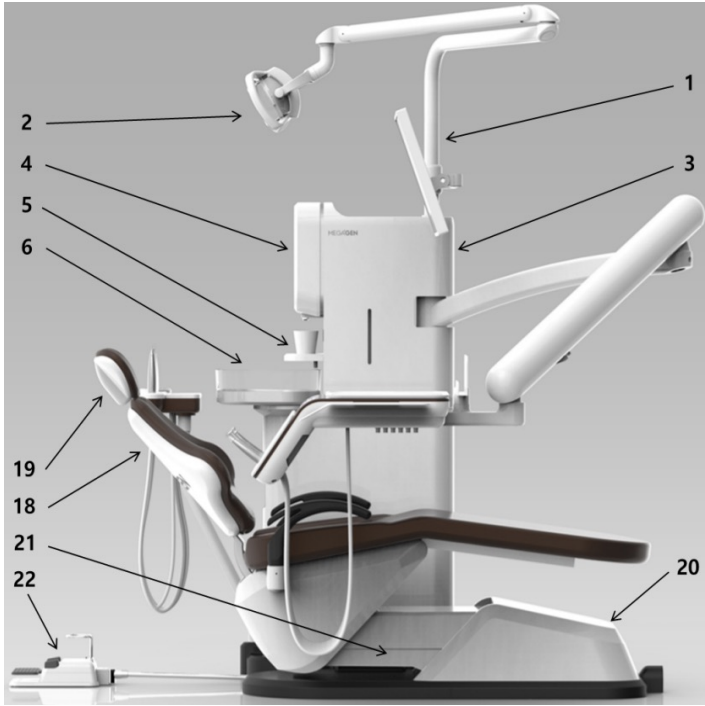
| | |
|---|--|
|  | <h4 style="text-align: center;">Chair</h4> <ul style="list-style-type: none"> ▪ Seamless cover for easy maintenance and cleaning ▪ Safety for Emergency Stop ▪ Ergonomic design ▪ Impact absorption system for smooth, uninterrupted movement |
|  | <h4 style="text-align: center;">Foot Switch</h4> <ul style="list-style-type: none"> ▪ Easy to operate Diaphragm Control System Multifunction Foot Switch |
|  | <h4 style="text-align: center;">Front Pad Switch</h4> <ul style="list-style-type: none"> ▪ Manual operation available ▪ Touch function (14 programming available) ▪ Auto position (4 programming available) (P1, P2, Spittoon Position, LP Position) ▪ Timer available ▪ LED Display (Operation status indication) ▪ LED color selection (User desired color) (Blue, Yellowish Green, White, Pink) |
|  | <h4 style="text-align: center;">LED Light</h4> <ul style="list-style-type: none"> ▪ 25,000 Lux ▪ Brightness Control ▪ Rotate Left and Right Twist. ▪ Auto on/off at any automatic position. |

| | |
|---|--|
|  <p style="text-align: center;">Type A</p>  <p style="text-align: center;">Type B</p> | <p style="text-align: center;">Unit</p> <ul style="list-style-type: none"> ▪ The water is poured in the cup automatically by operating the sensor. (Sensor operation with sound) ▪ The spittoon clean function operation <ul style="list-style-type: none"> - The cup is filled with water to a certain amount and after 3 seconds. - The cup is disappeared from the sensor and after 3 seconds. ▪ LED Display <ul style="list-style-type: none"> - Cool water (Blue) - Warm water (Pink) ▪ The patient can use the tissue directly. ▪ The spittoon rotation for patient convenience. |
|  | <p style="text-align: center;">Assist Table</p> <ul style="list-style-type: none"> ▪ Assist holder with Syringe, HVE, and Saliva ejector. ▪ Pad switch for the choreographer. ▪ Auto Suction S/W ▪ Air vacuum / CVS |
|  <p style="text-align: center;">Mount</p>  <p style="text-align: center;">Cart</p> | <p style="text-align: center;">Doctor Table</p> <ul style="list-style-type: none"> ▪ Table with operating keys used by Doctor ▪ Do not load more than 7.5kg <p>Mount Type</p> <ul style="list-style-type: none"> ▪ Adopt the spring structure for the bracket table easy operation. <p>Cart Type (Cart weight : 35Kg)</p> <ul style="list-style-type: none"> ▪ The separation type ▪ High stability due to the floor type |
|  | <p style="text-align: center;">Second Assi</p> <ul style="list-style-type: none"> • Auxiliary device used when inhaling foreign substances in the oral cavity (optional) |

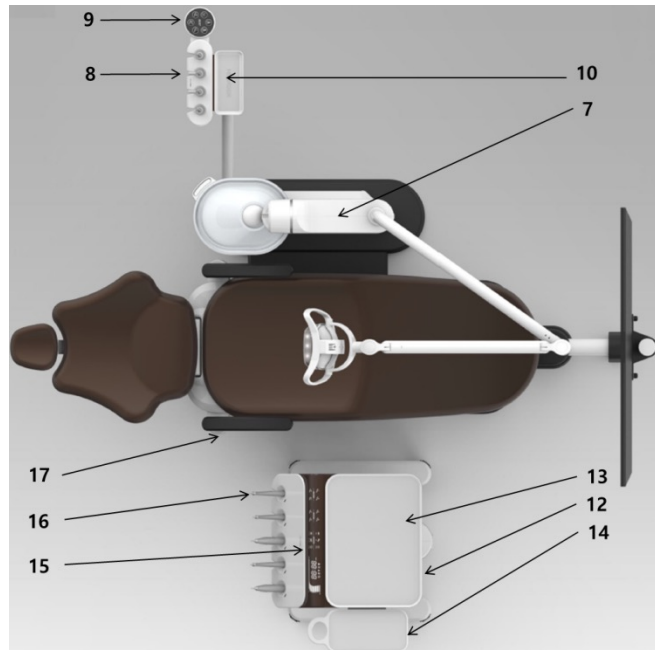
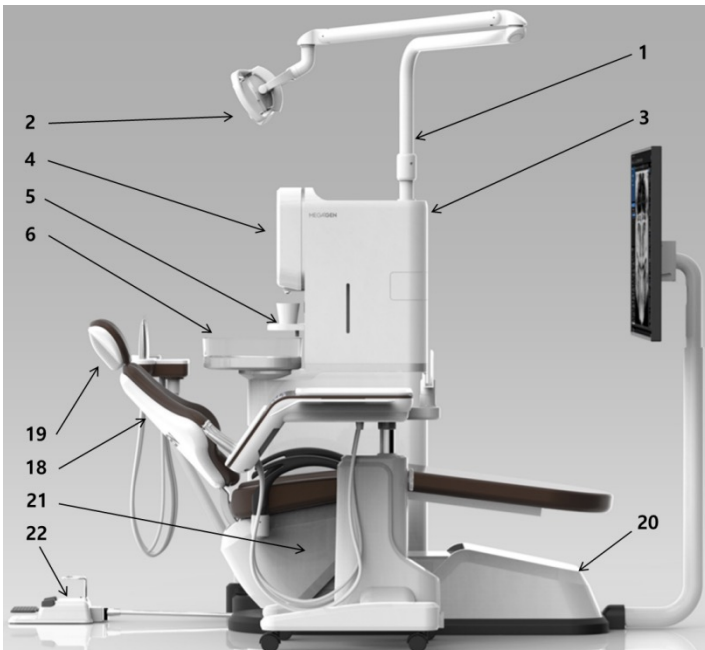
N2

3. 4 Structural name of product (1/2)

► N2 (Mount A type)

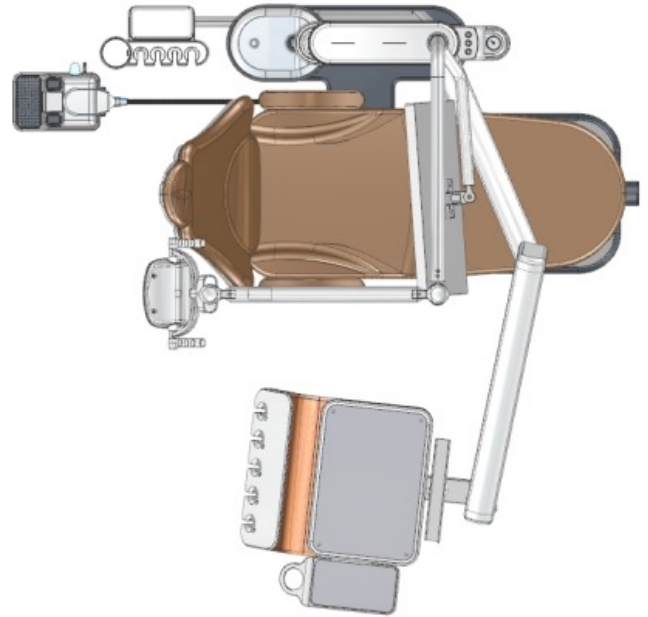
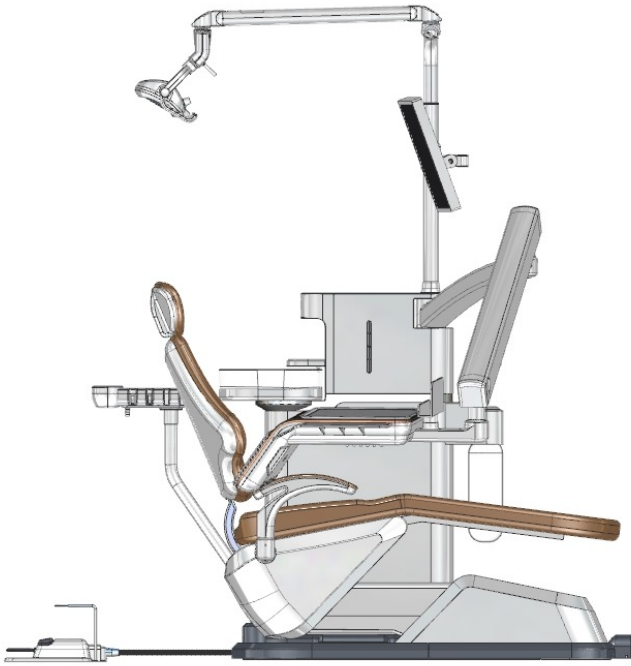


► N2 (Cart A type)

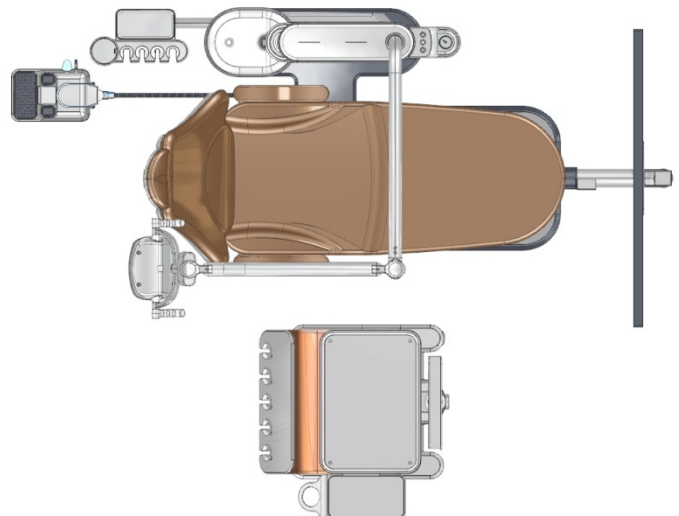
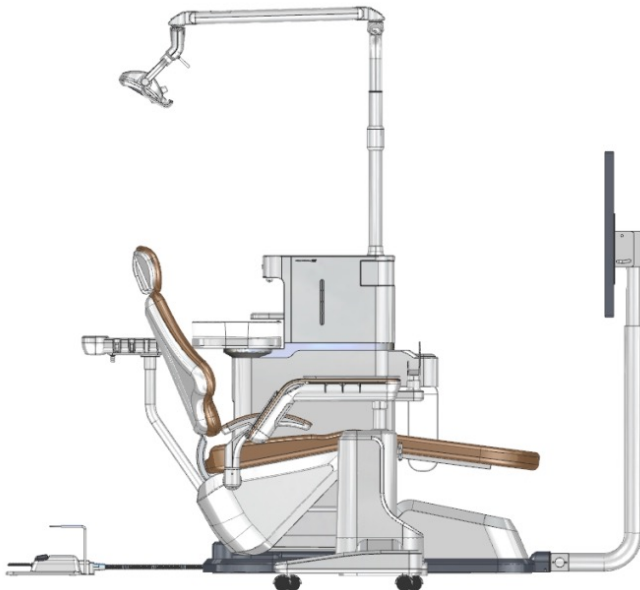


3. 4 Structural name of product (2/2)

► N2 (Mount B type)



► N2 (Cart B type)



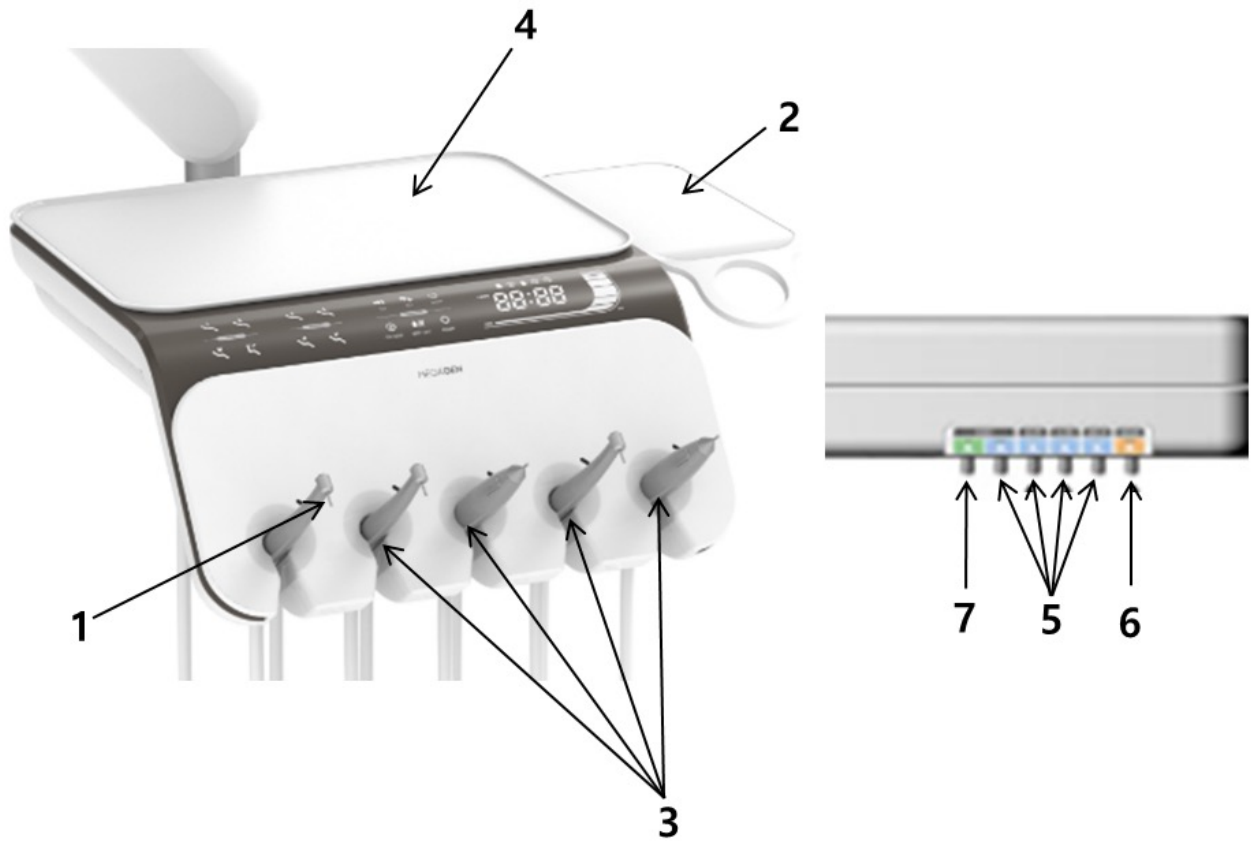
1) Name and function of appearance (1/2)

| No | Name | Explanation |
|----|---------------------|---|
| 1 | Light arm | Attach the medical light to the end of the pole as an attachment to the dental lamp. |
| 2 | LED Light | Used to protrude into the patient's mouth. |
| 3 | Unit body | It is equipped with the UIID, WATER PCB. |
| 4 | Acrylic panel | The water status can be confirmed by the LED color. - Cool Water : Blue - Warm Water : Pink |
| 5 | Cup Filler | The function to automatically fill the cup with water (hot water and cold water) |
| 6 | Spit Cup | Devices used to rinse the mouth or spit saliva on the patient |
| 7 | Unit tray | It is used to put the medical instruments. |
| 8 | Assist main body | It is equipped with ASSIST PCB. |
| 9 | Assist membrane pad | It consists of the chair or each control button to use by assistant. |
| 10 | Assist tray | It is used to put the medical instruments. |
| 11 | Mount arm | Unit Table a support organization |
| 12 | Table main body | It is equipped with the TBID, FNID, FN LED PCB. |
| 13 | Table tray (large) | It's a device that's mounted on a percussion stand and a glass of water for the Bolins. |
| 14 | Table tray (small) | It is the mouse pad for the wireless mouse. It is attached the cup holder. |

1) Name and function of appearance (2/2)

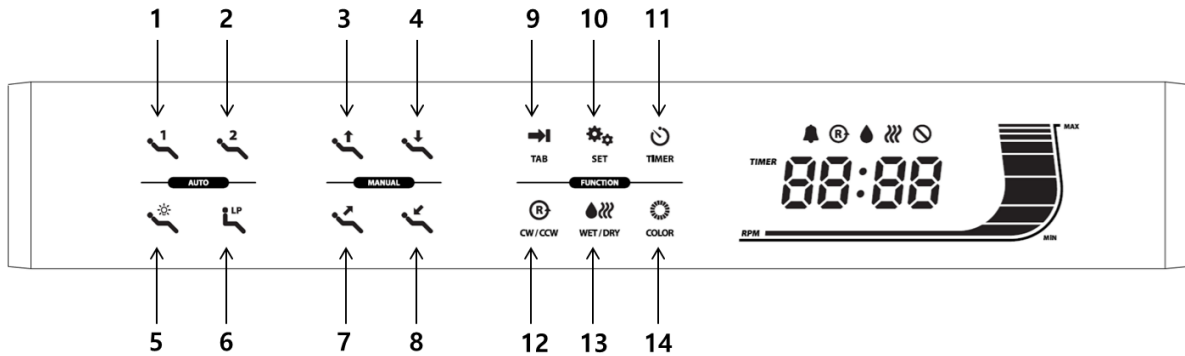
| No | Name | Explanation |
|----|----------------|---|
| 15 | Table front | It consists of the chair or each control button. It is equipped with the F-PCB PAD. |
| 16 | 3-Way Syringe | Devices that spray the teeth with water and air during treatment |
| 17 | Arm rest | A device that supports the patient's arm |
| 18 | Dental Chair | A device for selecting a patient's location |
| 19 | Head rest | A support base for the patient's head |
| 20 | Base main body | Used to protrude into the patient's mouth. |
| 21 | Cylinder Cover | Resin cover for the prevention and protection of lift cylinder |
| 22 | Foot Switch | An integrated operation switch for operating equipment such as handpiece and raising chair, lowering lamp, etc. |

2) Name and function of table



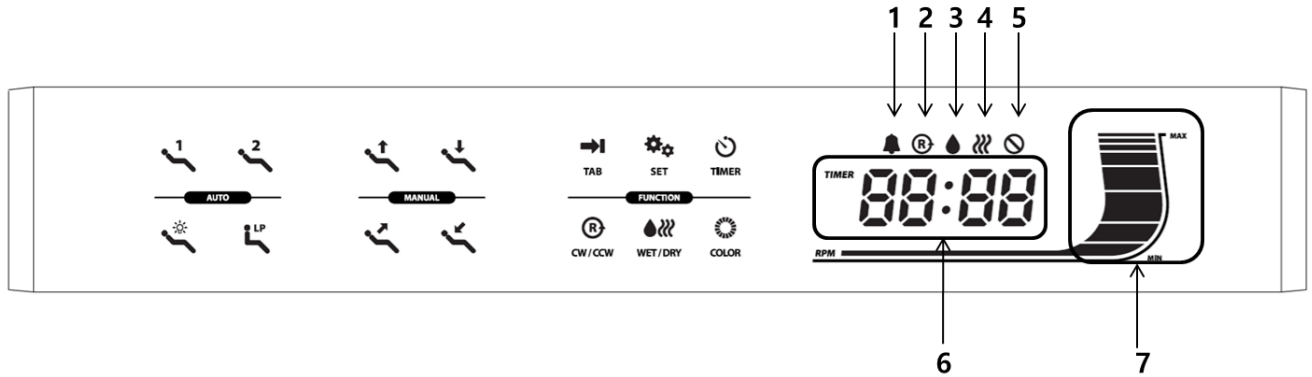
| No | Explanation |
|----|---|
| 1 | It is the 3-WAY Syringe. It is sprayed by pushing the water and air button. |
| 2 | It is the mouse pad for the wireless mouse. The circular hole is equipped with a dirt trap. |
| 3 | It is the handpiece holder for the Hi/Low Handpiece and scaler. |
| 4 | It is used to put the medical instruments. (Apply the anti-slip function) |
| 5 | It is the handpiece water control valve to control the water supply to handpiece. |
| 6 | It is the scaler water control valve to control the water supply to scaler. |
| 7 | It is the scaler power control valve to control the scaler vibration power. |

3) Name and function of table front pad (1/2)



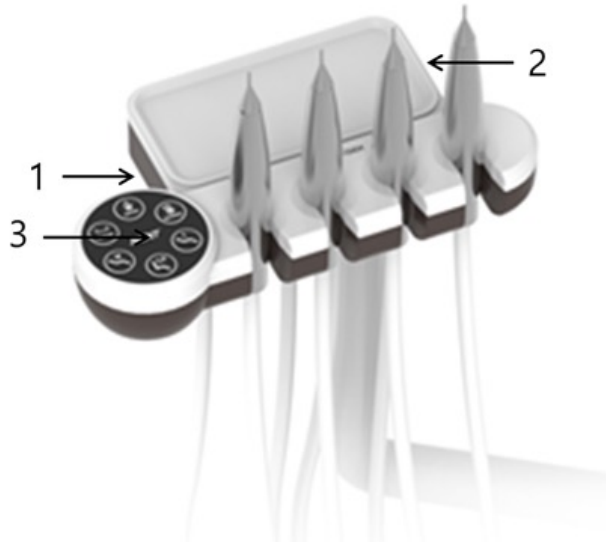
| No | Name | Explanation |
|----|------------|---|
| 1 | P1 | - Automatically moves to the position saved in P1, Light automatic on. - Position the chair as desired and hold the P1 button for at least 3 seconds to save. |
| 2 | P2 | - Automatically moves to the position saved in P2, Light automatic on. - Position the chair as desired and hold the P2 button for at least 3 seconds to save |
| 3 | Chair up | The chair moves up while the button is pressed. |
| 4 | Chair down | The chair moves down while the button is pressed. |
| 5 | Light | Light a button that can be turned on/off manually. |
| 6 | LP/RP | LP : Chair position that the patient can move before treatment and after end, Light automatic off. RP: press and hold LP to move to RP / Ability to move the previous step position. |
| 7 | B/R up | The backrest of the chair moves up while the button is pressed. |
| 8 | B/R down | The backrest of the chair moves down while the button is pressed. |
| 9 | TAP | Press and hold to reset the timer to 1 minutes. Minute / second digit shift function when setting timer. |
| 10 | SET | Press and hold to reset to 5 minutes. Time up function when setting timer. |
| 11 | TIMER | TIMER start / stop (initialization) function. Time of TIMER can be set after long press. Long press again, it can be saved. |
| 12 | CW/CCW | Handpiece rotate direction switching function (Forward/Reverse) |
| 13 | WET/DRY | Handpiece WET/DRY switching function |
| 14 | COLOR | Press and hold, and press again to change the display panel LED color. After selecting desired color, press and hold to save. |

3) Name and function of table front pad (2/2)



| No | Name | Explanation |
|----|--------------------|---|
| 1 | ALARM DISPLAY | LED on when TIMER is end |
| 2 | REVERSE DISPLAY | LED on : Reverse direction (Handpiece) LED off : Forward direction (Handpiece) |
| 3 | WET DISPLAY | LED on : WET function (Handpiece) |
| 4 | DRY DISPLAY | LED on : Dry function (Handpiece) |
| 5 | CHAIR STOP DISPLAY | LED on when operate safety switch on the bottom of the chair |
| 6 | TIMER | Time display when set TIMER |
| 7 | FOOT DISPLAY | Display of handpiece ON/OFF signal when the foot pedal is pressed |

4) Name and function of Assist table









| No | Name | Explanation |
|----|---------------------------------|--|
| 1 | Second Assi Power Switch | Second Assi power ON/OFF switch (optional) Second Assi Power switch is a separate component |
| 2 | Water pipe washing Power switch | Automatic Water Pipe washing power ON/OFF switch (optional) Water Pipe Washing Power switch is a separate component |
| 3 | Assist membrane pad | Auxiliary device that controls the position of the doctor and uses various functions |



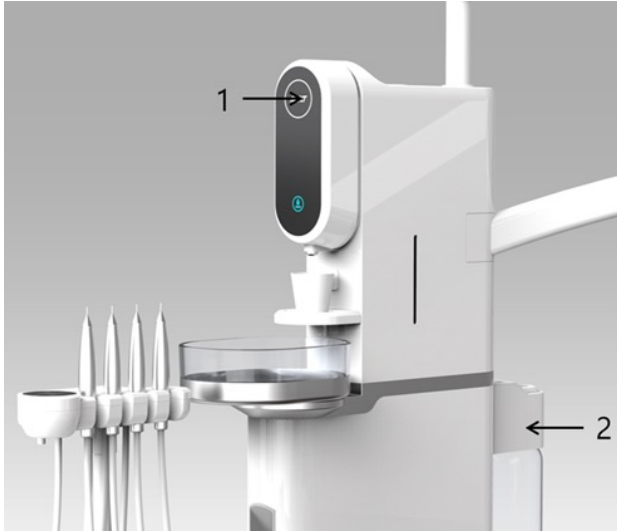
5) Name and function of assist membrane pad



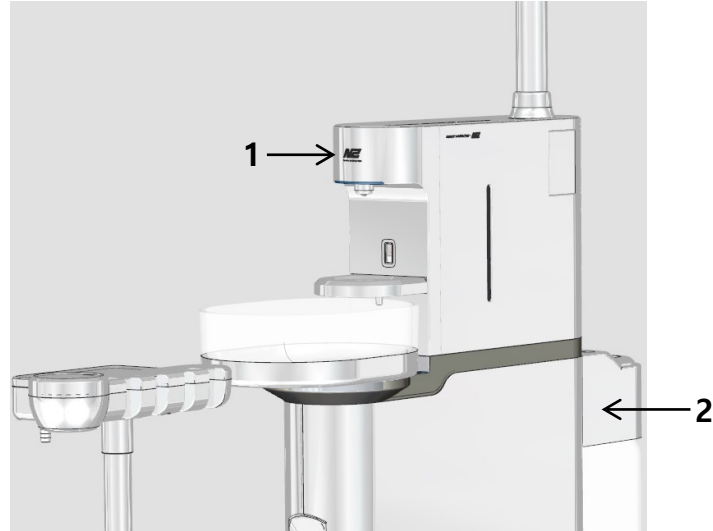
| No | Name | Explanation |
|----|--|---|
| 1 |  WATER | Manual function that allows water to come out when it is pressed. (The function operates only when the sensor detects the cup.) |
| 2 |  WARMER | LED color 'Pink' : Warm water LED color 'BLUE' : Cool water |
| 3 |  P1 | Automatically moves to the position saved in P1, Light automatic on. |
| 4 |  LP | Chair position that the patient can move before treatment and after end, Light automatic off. |
| 5 |  Light | Light a button that can be turned on/off manually. |
| 6 |  DRAIN | Spittoon wash function by water supply |

N2

6) Each Unit position description



A type



B type

| No | Name | Explanation |
|----|---------------------------|---|
| 1 | Acryl panel | A device that displays cold water, warm water, and water pipe cleaning status Divided into A type and B type |
| 2 | Water pipe washing system | Equipment used to wash the water line (optional) Water Pipe cleaning is a separate component |

N2

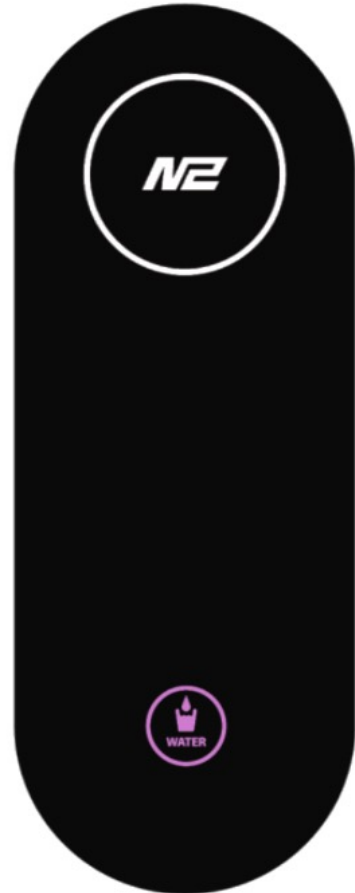
7) Name and function of Acrylic panel (1/2)



A Type

1.



2.



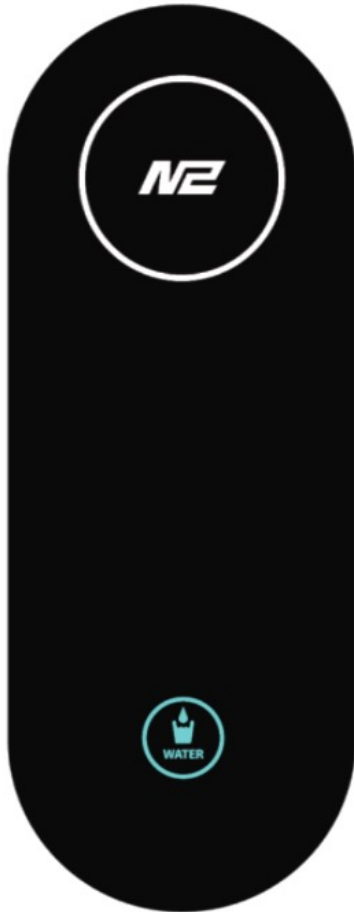
| No | Name | Explanation |
|----|---|--------------------------|
| 1 |  Cold water mode | BLUE : Cool water status |
| 2 |  Warm water mode | PINK : Warm water status |

N2

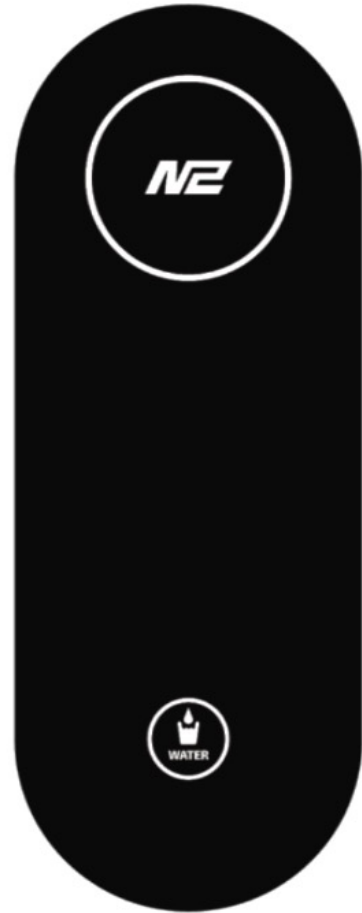
7) Name and function of Acrylic panel (2/2)



A Type

1.



2.



| No | Name | Explanation |
|----|---|--|
| 1 |  Clean mode standby | MINT : Water pipe washing standby status |
| 2 |  Clean mode finished | WHITE : Water pipe washing completed (Flicker) |

N2

7) Name and function of Acrylic panel (1/2)

B Type

1.



2.



| No | Name | Explanation |
|----|------------------------|-------------------|
| 1 | (Blue) Cold water mode | Cool water status |
| 2 | (Pink) Warm water mode | Warm water status |

N2

7) Name and function of Acrylic panel (2/2)

B Type

1.

2.



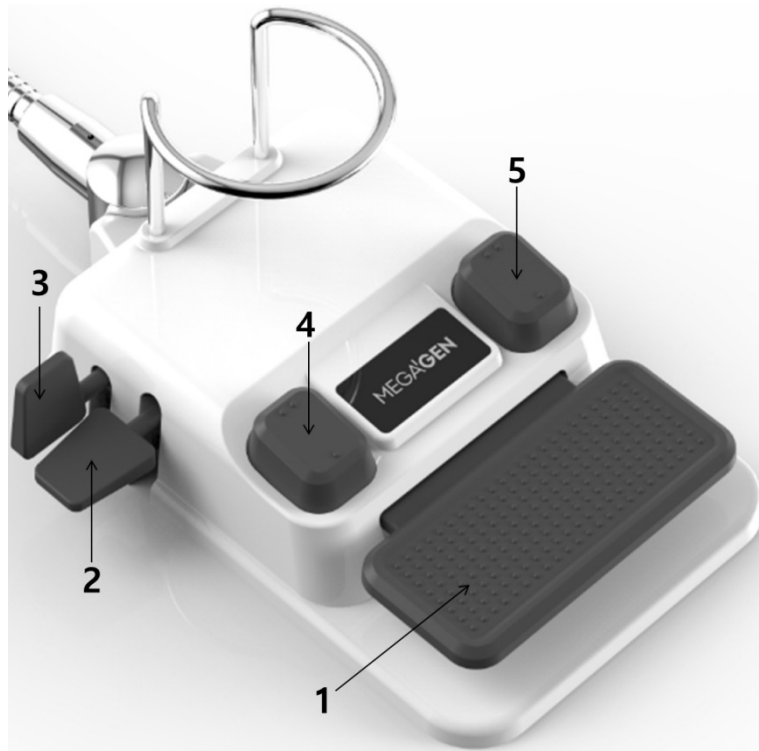
| No | Name | Explanation |
|----|-----------------------------|--|
| 1 | (Mint) Clean mode standby | Water pipe washing standby status |
| 2 | (White) Clean mode finished | Water pipe washing completed (Flicker) |

8) Name and function of Water pipe washing device



| No | Name | Explanation |
|----|---------------------|---|
| 1 | Water bottle Switch | ON/OFF switch to supply air to the storage bin |
| 2 | Pressure regulator | Device to regulate the proper pressure |
| 3 | Water supply Switch | Switch of toggle the main water supply pipe and cleaning solution.(Top: Select main Water supply / Bottom : select cleaning solution) |
| 4 | Pressure indicator | Device to visually check the set pressure |
| 5 | Water bottle | Container for storing cleaning solution |

9) Name and function of Foot switch



| No | Name | Explanation |
|----|----------------|---|
| 1 | Foot Pedal | The handpiece operation when push the foot switch (If push the foot switch when P1, P2, LP, RP function, chair movement stop) |
| 2 | Chair up | The chair moves up while the button is pressed |
| | Chair down | The chair moves down while the button is pressed |
| 3 | Back Rest up | The Backrest moves up while the button is pressed |
| | Back Rest down | The Backrest moves down while the button is pressed |
| 4 | P1/LP | Press once to move to P1 position, long press to move to LP position |
| 5 | P2/RP | Press once to move to P2 position, long press to move to RP position |

N2

3. 5 Product Specification

1) Water Supply

- Water pressure limits : 2.5 ± 0.3 kgf/cm² (Approx. 2.5 bar)
- Water flow rate limit : > 5 l/min
- Water hardness limit : < 12 ° dH
- pH limits : 6.5 ~ 8.5 pH
- Maximum particle size : < 100µm



- Use the purified water.
- There is a risk of infection if you fail to comply with national regulations. (Contamination of the treatment water and/or drinking water supply with germs.)
 - ▶ Note and comply with national regulations concerning the quality of water for human use (drinking water) - if applicable.
 - ▶ Note and comply with national regulations concerning the prevention of backflow (flow from the treatment centre back to the public water supply) - if applicable.

(Français)



- Utilisez l'eau purifiée.
- - Il existe un risque d'infection si vous ne respectez pas les réglementations nationales. (Contamination de l'eau de traitement et / ou de l'approvisionnement en eau potable par des germes.)
 - ▶ Prendre note et respecter les réglementations nationales concernant la qualité de l'eau à usage humain (eau potable) - le cas échéant.
 - ▶ Respecter et respecter les réglementations nationales concernant la prévention des reflux (retour du centre de traitement vers le réseau public d'eau potable) - le cas échéant.

2) Air Supply

- Air pressure limits : 7 ~ 8 kgf/cm² (Approx. 7 ~ 8 bar)
- Regulator air pressure : 5.5 kgf/cm² (Approx. 5 ~ 6 bar)
- Air flow rate limit : > 80 NI/min
- Dew point : < -20 °C (at atmospheric pressure)
- Oil contamination limit : < 0.5 mg/m³
- Particulate contamination limit : < 100 particles/m³ (Particle size 1 ~ 5 μm)

3) Filter

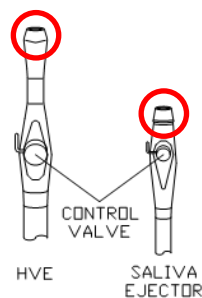
- Water particle filter size : 10 μm
- Air particle filter size : 10 μm

4) Suction System

- Suction air flow rate : 250NI/min (High-volume suction system)

5) Suction Source

- Diameter of cannula of Saliva ejector : 7 mm
- Diameter of cannula of HVE : 5 mm



6) 3-way Syringe

- 3-way Syringe : > 25 ml/10 sec

7) Medical device Dental Chair

- Rising range : min 430 mm \pm 10 mm, max 790 mm \pm 10 mm
- Seat Slope : min 0° \pm 3° , max +68° \pm 3°
- Head rest : Rotational (Manual) - Rotational control range : -50° ~ +14° Slide, Disassemble(Manual)
- Arm rest : Lift Arm rest – Fixed
Right Arm rest – Switchable(Manual), Switching angle 0°~90° \pm 5°
- Maximum permissible weight : 150 kg
- Chair duty cycle : ON : 60s, OFF : 600s

8) LED Light

- Rated Power : AC 12-18 V
- Frequency : 50/60 Hz
- power consumption : 14 VA
- Illumination : 25,000 Lux
- Spot Size : 150 x 90 mm
- Color Temperature : 5,000 K
- CRI(Ra) : 90
- Model name : C300

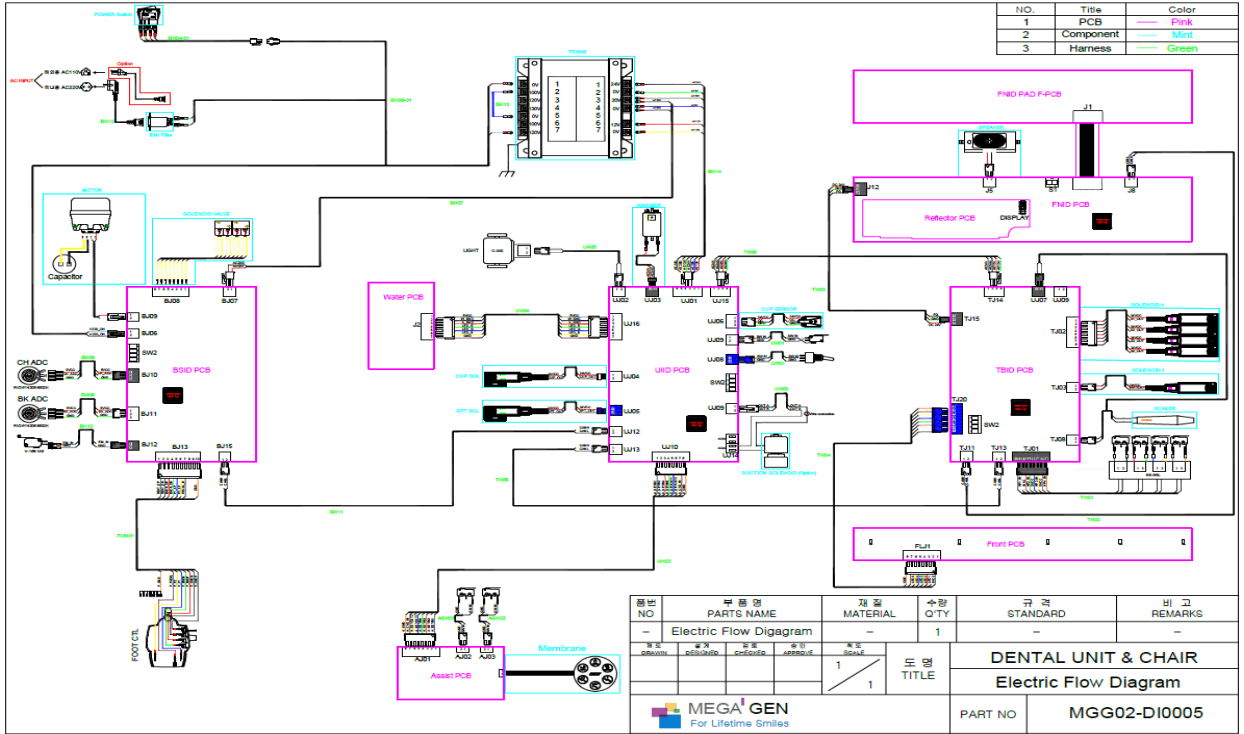
9) Power supply unit for scale (Option)

- Fit the power supply to install the scalers on demand. (AC 24 V, 1.5 A)

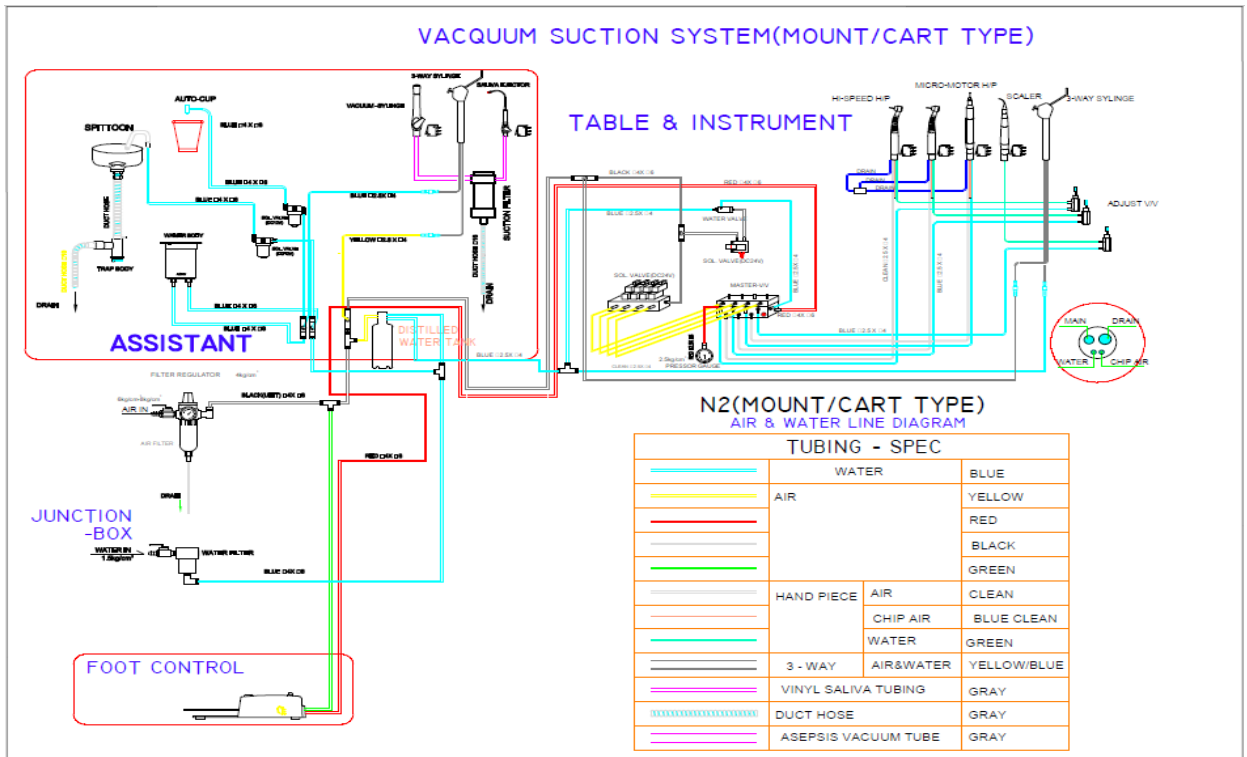
10) Applied Parts

- 3-way Syringe
- Head rest
- Back rest
- Arm rest
- Seat

3. 6 Power Supply Wiring Diagram



3. 7 Block diagram (hydraulic pipe, wiring diagram, etc.)



4. Product Installation Environment

4. 1 Warning



- 1) Be sure to install the ground wire.
(Failure to install a ground wire may result in an electric shock.)
- 2) It should be installed out of the water.
- 3) Not used on Pacemaker patients.

4. 2 Caution



- 1) Do not damage the power cord, process or place heavy objects. (Code may be broken, causing fire and electric shock.)
- 2) Do not install the equipment in an unstable place with incline, vibration, or shock.
- 3) Do not use in a place negatively influenced by air pressure, temperature, humidity, ventilation, sunlight, dust, and air containing salt.
- 4) Pay attention to voltage (V), allowable current value (A) (or power consumption) at the connection of the power source.
- 5) Maintain the pressure of the main water pressure gauge at 2.5 kgf/cm².
- 6) Maintain the pressure in the main air pressure gauge at 5.5 kgf/cm².
- 7) Do not place other objects within the scope of the care so as not to disturb the care.
- 8) Compressed air, water supply, power and drainage are connected according to their intended use.
- 9) Must be used for rated voltage.

4. 3 Product Power Inputs and More

- 1) Input : AC 100-120 V, 50/60 Hz / AC 220-240 V, 50/60 Hz
- 2) Power consumption : 1000 VA
- 3) Maximum permissible weight : 150 Kg
- 4) Product total weight : 200 Kg

N2

4. Environnement d'installation du produit (Français)**4. 1 Attention**

- 1) Assurez-vous d'installer le fil de terre. (Le fait de ne pas installer un fil de terre peut entraîner un choc électrique.)
- 2) Il doit être installé hors de l'eau.
- 3) Non utilisé sur les patients avec stimulateur cardiaque

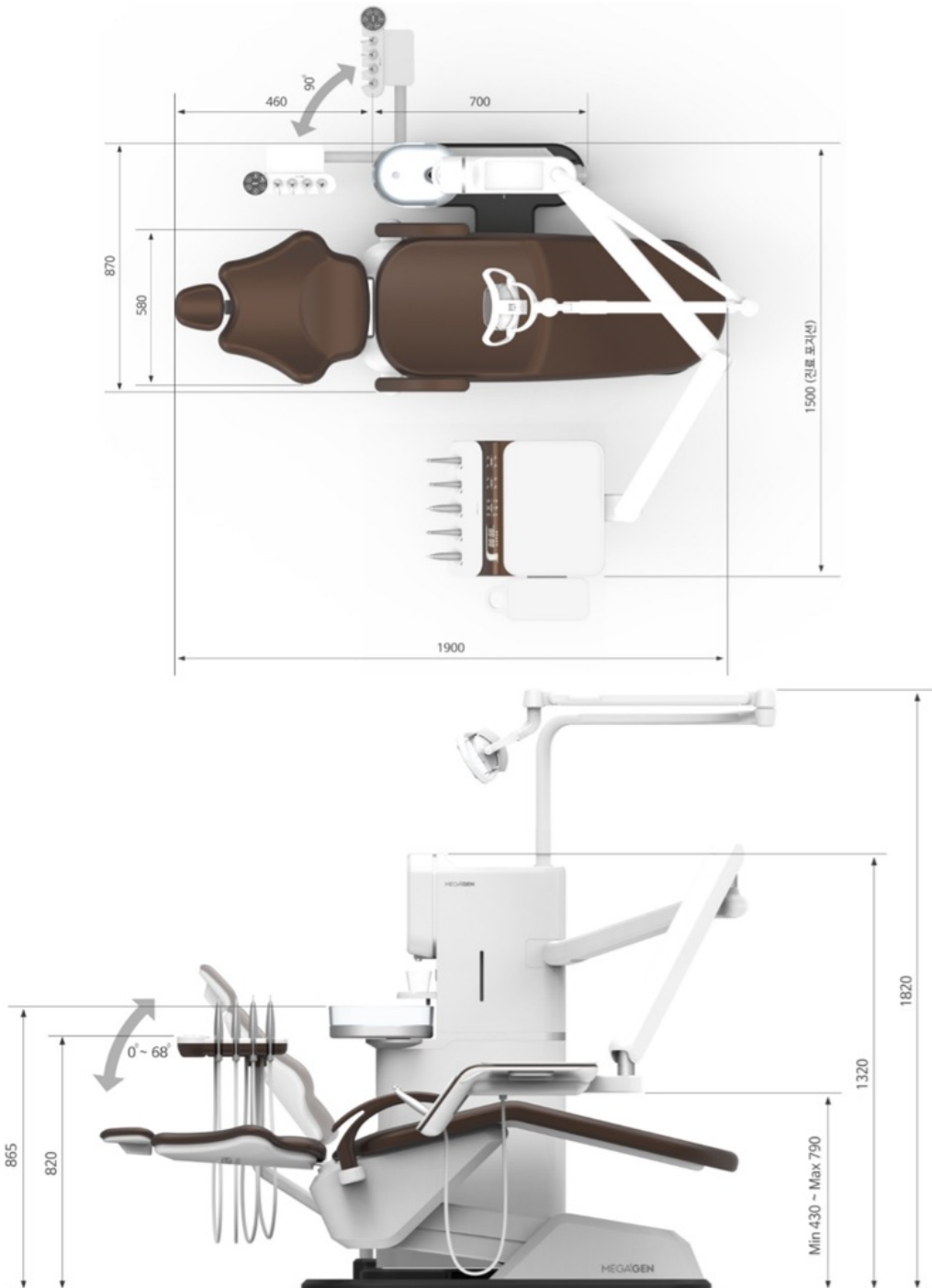
4. 2 Mise en garde

- 1) Do not damage the power cord, process or place heavy objects. (Code may be broken, causing fire and electric shock.)
- 2) Do not install the equipment in an unstable place with incline, vibration, or shock.
- 3) Do not use in a place negatively influenced by air pressure, temperature, humidity, ventilation, sunlight, dust, and air containing salt.
- 4) Pay attention to voltage (V), allowable current value (A) (or power consumption) at the connection of the power source.
- 5) Maintain the pressure of the main water pressure gauge at 2.5 kgf/cm².
- 6) Maintain the pressure in the main air pressure gauge at 5.5 kgf/cm².
- 7) Do not place other objects within the scope of the care so as not to disturb the care.
- 8) Compressed air, water supply, power and drainage are connected according to their intended use.
- 9) Must be used for rated voltage.

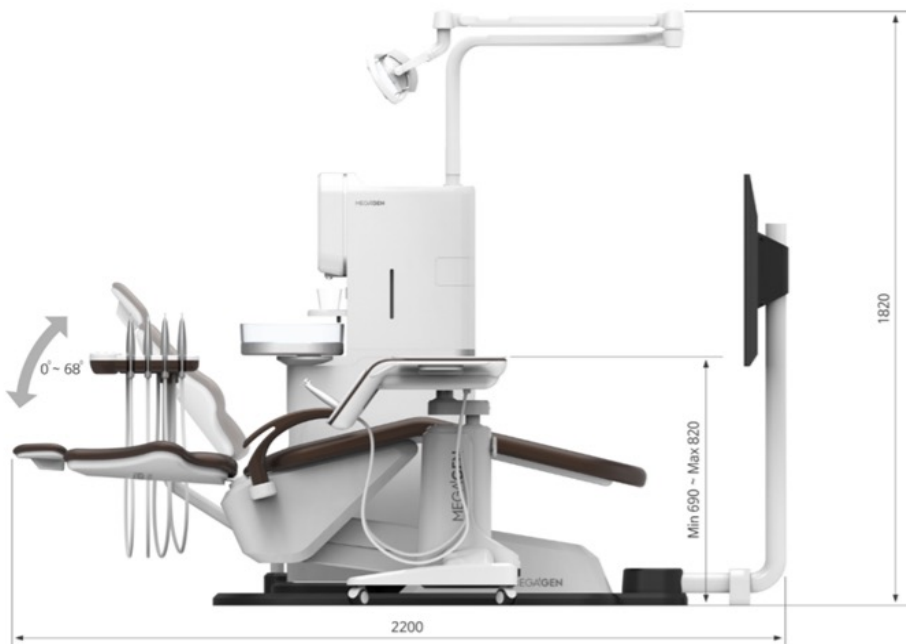
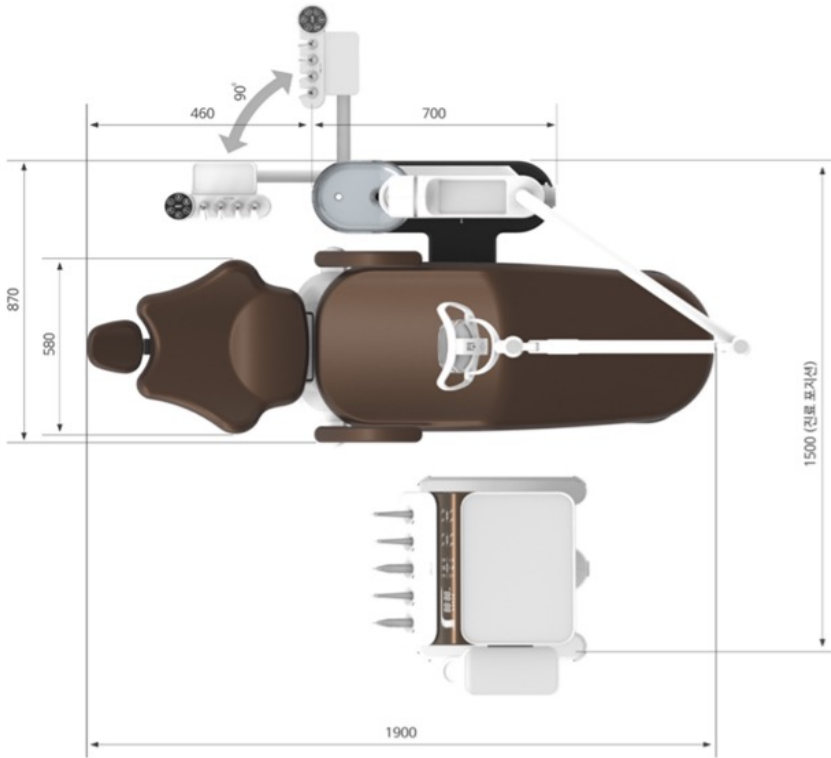
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4. 4 Exterior size and footprint of product (mm)

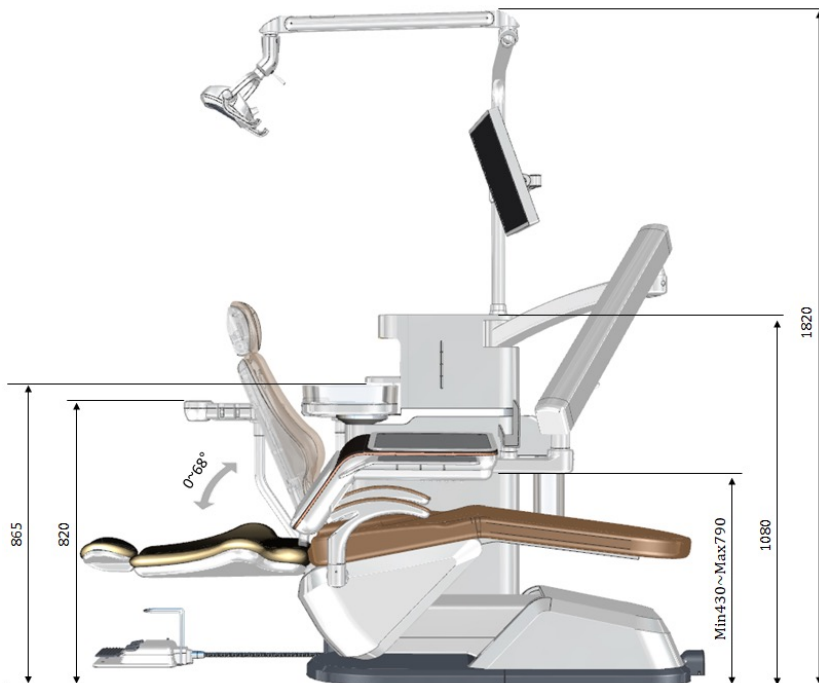
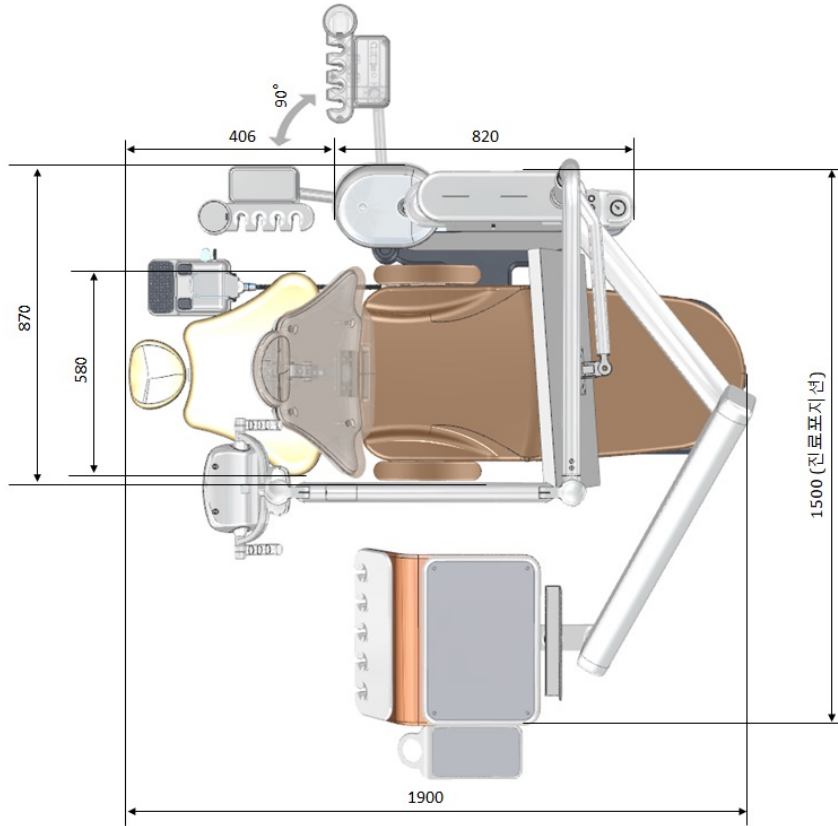
(1) N2 (Mount A type)



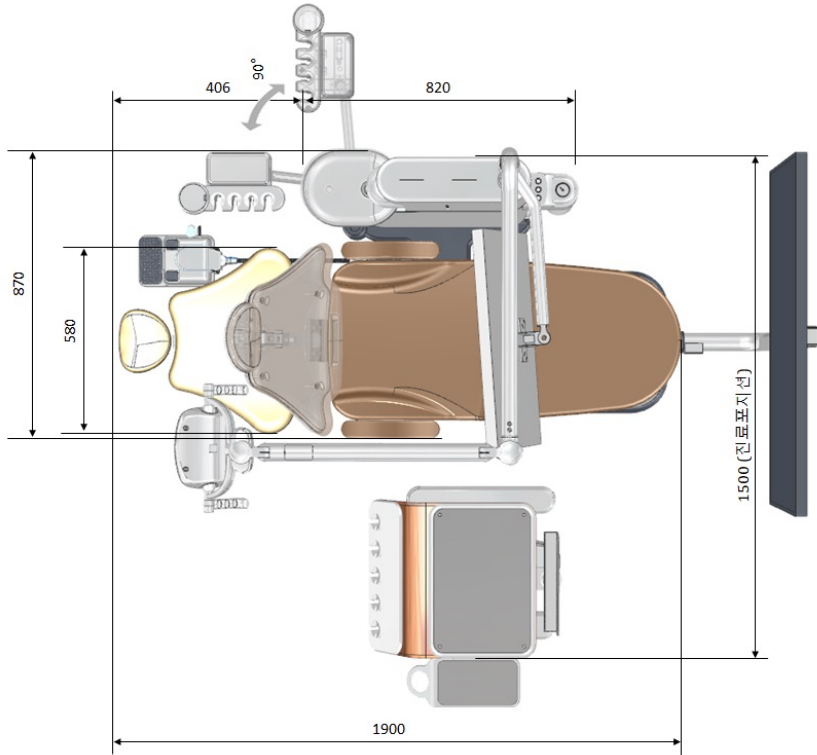
(2) N2 (Cart A type)



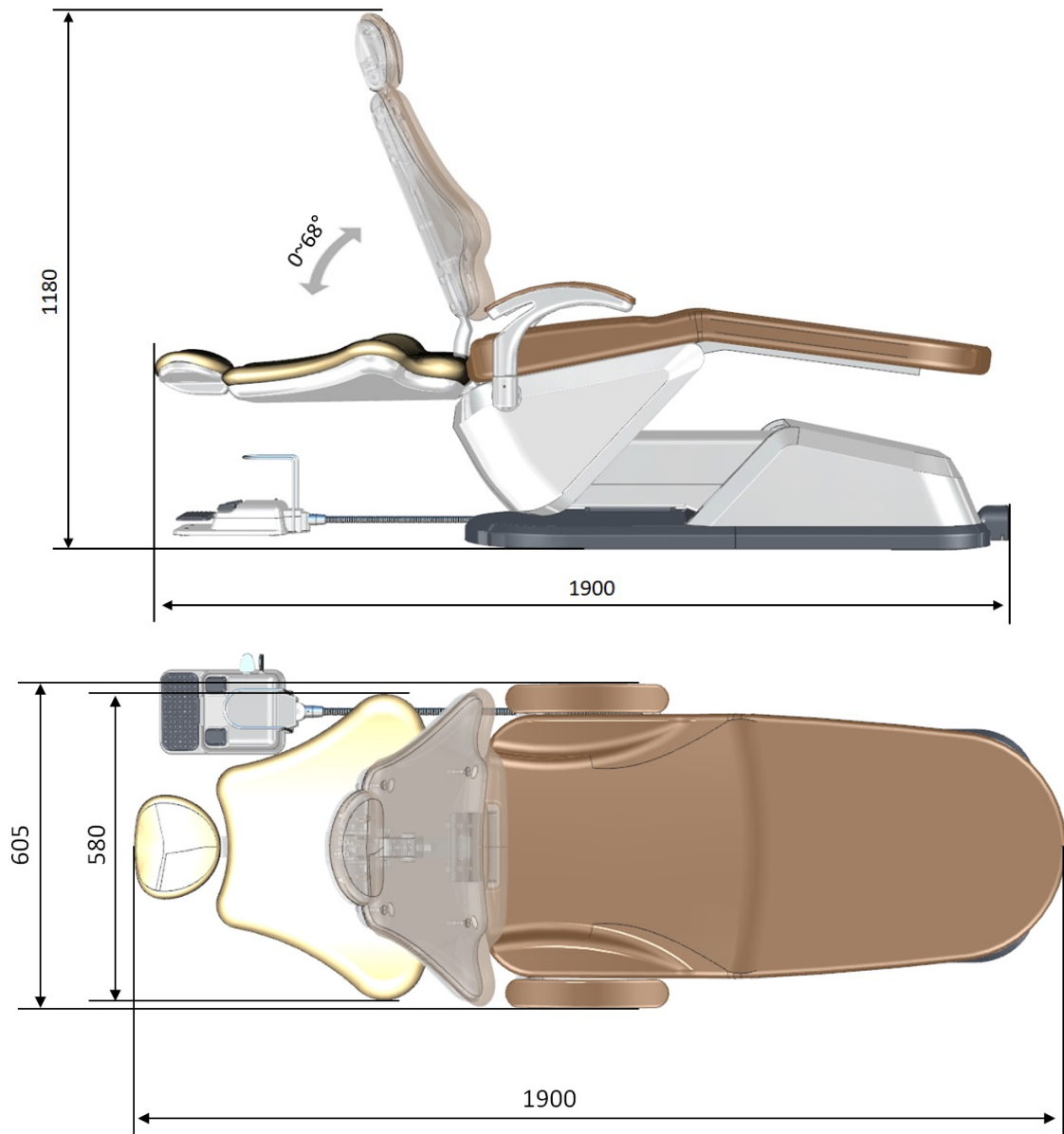
(3) N2 (Mount B type)



(4) N2 (Cart B type)



(5) Chair only



- 1) Only the chair can be operated using the foot switch.
- 2) In the chair only, water and air are not connected.
- 3) The handpiece cannot be used.

4. 5 Handpiece Installation

(1) High-Speed Handpiece



Coupling and tubing connected



Handpiece and coupling connected

※ Remark : Please refer to the manufacturer's manual for details on using the handpiece.

(2) Low-Speed Handpiece



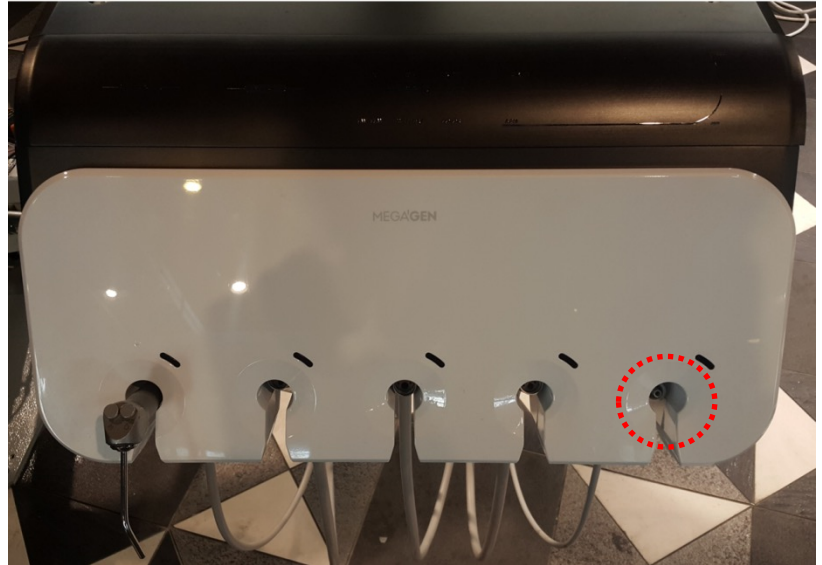
Coupling and tubing connected



Handpiece and coupling connected

※ Remark : Please refer to the manufacturer's manual for details on using the handpiece.

(3) Scaler



Scaler and tubing connected



Mount the scaler tip to the scaler.
(Turn tightly by using torque wrench when mounting.)

※ Remark : Please refer to the manufacturer's manual for details on using the handpiece.

N2

5. Cleaning, disinfection and sterilization methods

5. 1 Warning



- 1) Because of the risk of infection, various handpieces and instruments used must be sterilized and disinfected before treatment.- It should be installed out of the water.
- 2) Dispose of used disposable gauze and cotton at designated locations in case of infection.
- 3) Turn off the power of the machine and clean it to prevent electric shock.

5. 2 Caution



- 1) For strain and protection of the equipment, clean the equipment with the specified solution and apparatus.
- 2) Before cleaning and disinfection, you must turn off the AIR • WATER MASTER S/W of the unit.
- 3) Please refer to the manufacturer's manual for cleaning, disinfection and sterilization method and frequency on using the handpiece and scaler.

5. 3 Plastic Cover

- 1) Wipe the surface lightly using a solution of mild, non-ionic detergent and water, or commercially available cleaners containing no alcohol, bleach, or ammonia.
- 2) Dry it with dry gauze.



- 1) The use of alcoholic beverages is prohibited.
- 2) Cleaning the product surface using alcohol immersion is prohibited.

5. 4 Seat Cover

- 1) Wipe the seat cover lightly with leather wax once a week.
- 2) If there is any foreign substance, clean it by same way as the plastic cover.

N2

5. Méthodes de nettoyage, désinfection et stérilisation (Français)

5. 1 Attention



- 1) En raison du risque d'infection, les différentes pièces à main et instruments utilisés doivent être stérilisés et désinfectés avant le traitement - Il doit être installé hors de l'eau.
- 2) Jetez la gaze et le coton jetables usagés aux endroits désignés en cas d'infection.
- 3) Mettez la machine hors tension et nettoyez-la pour éviter tout choc électrique.

5. 2 Mise en garde



- 1) ou déformation et protection de l'équipement, nettoyer l'équipement avec la solution et l'appareil spécifiés.
- 2) Avant le nettoyage et la désinfection, vous devez éteindre l'AIR ◦ WATER MASTER S / W de l'unité.
- 3) Veuillez consulter le manuel du fabricant pour connaître la méthode de nettoyage, de désinfection et de stérilisation et la fréquence d'utilisation de la pièce à main et du détartreur.

5. 3 Couvercle en plastique

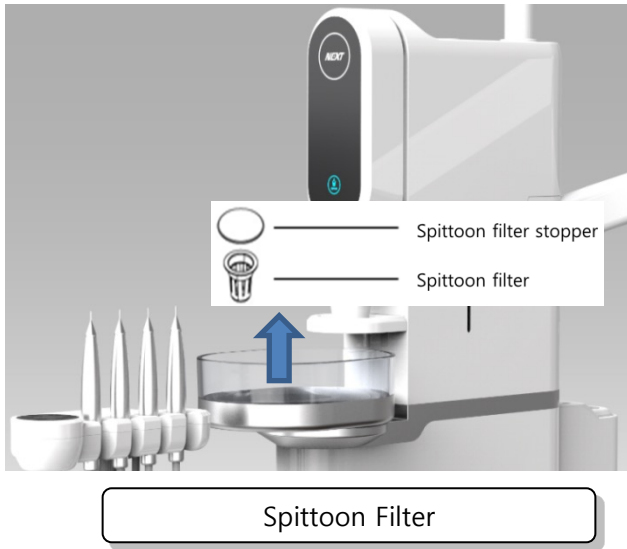
- 1) Essuyez légèrement la surface à l'aide d'une solution de détergent doux non ionique et d'eau, ou de nettoyeurs disponibles dans le commerce ne contenant ni alcool, ni javellisant, ni ammoniacque.
- 2) Séchez-le avec de la gaze sèche



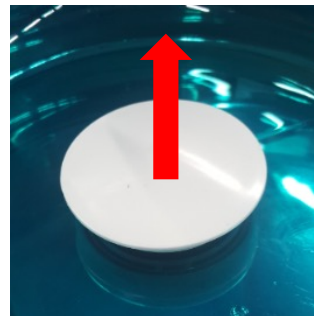
- 1) L'usage de boissons alcoolisées est interdit.
- 2) Le nettoyage de la surface du produit par immersion dans l'alcool est interdit.

5. 5 Spittoon Filter

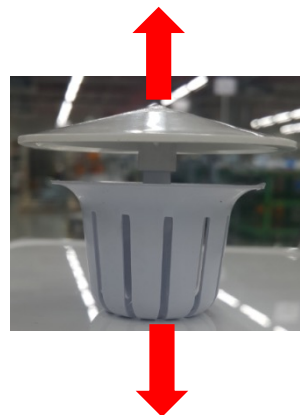
1) The place of the spittoon filter is like below.



2) Pick the spittoon cover up to remove it from the spittoon.



3) Disassemble the spittoon cover and filter by pulling it up and down.

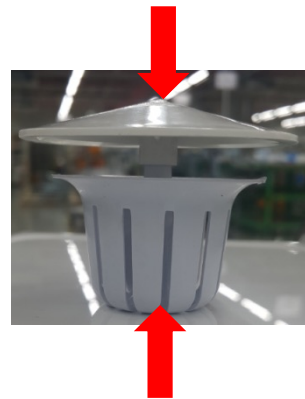


N2

4) Wash them with water.



5) Assemble the spittoon cover and filter.



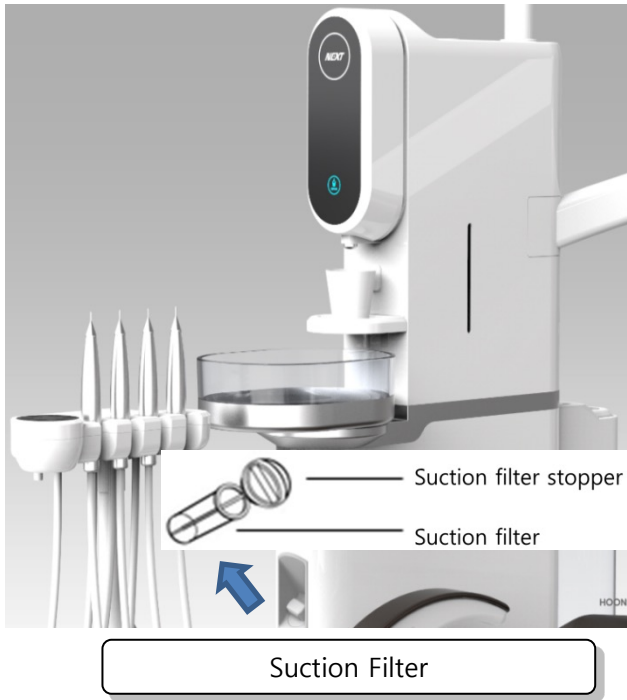
6) Return it to the original position.



N2

5. 6 Suction Filter

1) The place of the suction filter is like below.



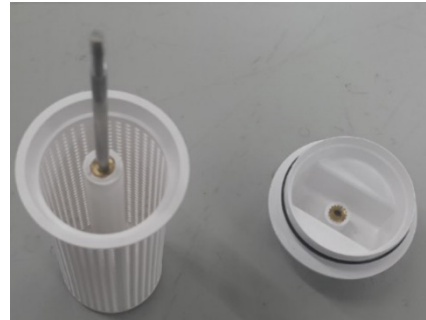
2) Pull the suction filter up to remove it.

3) Disassemble it by turn counterclockwise.



N2

4) Wash them with water.



5) Assemble them by turn clockwise



6) Return it to the original position.

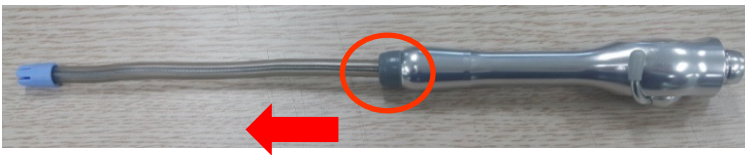


5. 7 HVE

- 1) Disassemble the HVE from the dental unit.



- 2) Remove the suction nozzle from the HVE.
(MegaGen Implant Co., Ltd. does not provide the suction nozzle.)



- 3) Remove the lever by pushing it to the side.



4) Wash them with water and solution of mild detergent.



5) Assemble them.



6) Connect the HVE to the dental unit.



5. 8 Saliva Ejector

- 1) Disassemble the saliva ejector from the dental unit.



- 2) Remove the suction nozzle from the saliva ejector.
(MegaGen Implant Co., Ltd. does not provide the suction nozzle.)



- 3) Remove the lever by pushing it to the side.



4) Wash them with water and solution of mild detergent.



5) Assemble them.

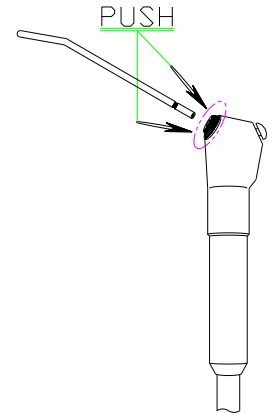


6) Connect the saliva ejector to the dental unit.



5. 9 3-way syringe and tip

- 1) Disassemble the 3-way syringe from the dental unit.
- 2) Pull out the 3-way syringe tip by push the button as follow.
- 3) Wash them with water and solution of mild detergent.



* How to sterilize the 3-way syringe tip

- 1) Limitations and restrictions on reprocessing.
 - The 3-way syringe tip assurances 3 times of reprocessing.

- 2) Package the product in a sterile wrap.

- 3) Sterilize it as like below.

- ① Sterilization Method: Autoclave (Gravity Type)
- ② Sterilization Temperature: 132 °C
- ③ Sterilization Time: 5 Minutes
- ④ Dry Time: 15 Minutes

- 4) Storage

- Storage the product as below environment.

| Environment | Temperature | Humidity | Atmospheric Pressure |
|-------------|----------------|-------------|----------------------|
| Storage | -10 °C ~ 35 °C | 10 % ~ 90 % | 500 hPa ~ 1,060 hPa |

- Refer to '7. How to store and move products' for storage method.

5. 10 Other instruments

- 1) Clean and Sterilize the hand-piece and scaler according to the manual of purchased products.
(MegaGen Implant Co., Ltd. does not provide the Hand-piece and the Scaler.)

5. 11 Waterline Cleaning

5.11.1 <Waterline combined cleaning method - Basic>

Step 1: Make a cleaning solution

- 1) Fill a water bottle (1L) with hydrogen peroxide (3~5%) solution.
- 2) To identify the solution, dissolve food coloring (red 1g) in a water bottle. (optional)

Step 2: Clean with cleaning solution

- 1) Close the main water line valve.
- 2) Remove the main water supply line and connect the wash liquid supply line.
- 3) Remove the handpiece, scaler, etc. from the tubing.
- 4) Operate the 3-way syringe, handpiece and scaler in sequence until the cleaning solution is released.
- 5) Place the cup on the cup filler and press the water supply manual key until the cleaning solution comes out.
- 6) If all flushing fluid has drained, turn off the dental unit and wait at least 8 hours before proceeding with the waterline cleaner.

Step 3: Flush the waterline


- 1) Remove the flushing fluid line and connect the main water line.
- 2) Operate the 3-way syringe, handpiece and scaler in sequence until water flows out.
- 3) Place a cup on the cup filler and press the manual water supply key until water comes out.
- 4) If all water has been drained, start medical treatment.

5.11.2 Manual Waterline Cleaning

Step 1: Make a cleaning solution

- 1) Fill a water bottle (1L) with hydrogen peroxide (3~5%) solution.
- 2) To identify the solution, dissolve food coloring (red 1g) in a water bottle.

Step 2: Clean with cleaning solution

- 1) Close the main waterline valve.
- 2) Connect the water bottle to the main unit (counterclockwise).
- 3) Remove the handpiece and scaler from the tubing.
- 4) Set the switch (WATER BOTTLE) to ON,
Set the switch (WATER SUPPLY) to BOTTLE.
- 5) Set the air pressure to 1.5 ~ 2.0 bar.
- 6) Operate the 3-way syringe, handpiece and scaler until cleaning solution comes out.
- 7) Place the cup on the cup filler and press the water supply manual key () until the cleaning solution comes out.
- 8) If the cleaning solution comes out to all parts, set the switch (WATER BOTTLE) to OFF, set the switch (WATER SUPPLY) to CITY.
- 9) Remove the water bottle from the main unit, clean it, and put it back into the main unit.
- 10) Turn off the device, wait at least 8 hours.



<Water tube cleaning mode>

Step 3: Flush the waterline

- 1) Turn on the device.
- 2) Open the main waterline valve.
- 3) Operate the 3-way syringe, handpiece and scaler for adequate time to remove any excess cleaning solution.
- 4) Place the cup in the cup filler and press the water supply manual key for adequate time to remove any excess cleaning solution.



<After washing is complete>

5.11.3 Automatic Waterline cleaning

Step 1 : Make a cleaning solution

- 1) Fill a WATER BOTTLE (1L) with hydrogen peroxide (3~5%) solution.
- 2) To identify the solution, dissolve food coloring (red 1g) in a WATER BOTTLE.

Step 2 : Clean with cleaning solution

- 1) Attach the water bottle to the unit.
- 2) Remove the handpiece (scaler) from the coupling.
- 3) Fix the removed handpiece to the cuspidor holder.
- 4) Set the WATER BOTTLE SWITCH to ON, and the WATER SUPPLY SWITCH to BOTTLE.
- 5) Turn on the Water Pipe Washing Power Switch on the Assist Table.
- 6) Check that the chair moves to the LP position and the unit panel color is Mint.
- 7) If the panel turns Mint, Press the Water button on the Assist Membrane Pad switch to start washing the water tube. (Drain button is stop)
- 8) Mint light up during washing.
- 9) After completion, the alarm sounds 5 times, and the color of the unit panel changes to white at the same time.
- 10) When all the washing liquid (red) is discharged, set the WATER BOTTLE SWITCH to OFF and the WATER SUPPLY SWITCH to CITY.
- 11) Turn off the dental unit and wait at least 8 hours before proceeding with the water line cleaner.

Step 3 : Flush the waterline

- 1) Turn on the dental device and press the Assist Membrane Pad Water button to flush the solution with water. (Repeat twice)
- 2) Turn off the Water Pipe Washing Power Switch on the Assist Table and check that the unit panel is blue or pink as it was before cleaning.



Cuspidor Holder



Switch Position
before cleaning



Switch Position
After cleaning
is complete

N2

5. 12 Conduct regular repair check and maintenance

| No. | Part | Method | Frequency |
|-----|--|---|-------------|
| 1 | Plastic Cover | Clause 5.3 | Once a week |
| 2 | Seat Cover | Clause 5.4 | Once a week |
| 3 | Spittoon Filter | Clause 5.5 | Once a day |
| 4 | Suction Filter | Clause 5.6 | Once a day |
| 5 | HVE | Clause 5.7 | Frequently |
| 6 | Saliva Ejector | Clause 5.8 | Frequently |
| 7 | 3-way Syringe | Clause 5.9 | Frequently |
| 8 | Other instruments (Handpiece, Scaler, etc.) | Please refer to the manufacturer's manual | |
| 9 | Waterline | Clause 5.11 | Once a week |

6. How to use

6. 1 Warning



- 1) Be sure to install the ground wire.
(Failure to install a ground wire may result in an electric shock.)
- 2) Not used on Pacemaker patients.

6. 2 Caution



- 1) Do not damage the power cord, process or place heavy objects.
- 2) Pay attention to voltage (V), allowable current value (A) (or power consumption) at the connection of the power source.
- 3) Maintain the pressure of the main water pressure gauge at 2.5 kgf/cm².
- 4) Maintain the pressure in the main air pressure gauge at 5.5 kgf/cm².
- 5) Do not place other objects within the scope of the care so as not to disturb the care.
- 6) Must be used for rated voltage.

6. 3 Pre-use Readiness

- 1) Check the voltage at the power source.
- 2) Make sure the ground is fully connected.
- 3) Ensure that compressed air, water supply, power and drainage are correct.
- 4) Connect the handpiece, the scale, and the syringe to the right position.
- 5) Make sure that the air and water supply pressure is set to the appropriate pressure.
- 6) Switch operation is performed to check for abnormal or abnormal vibrations.
- 7) Do not place other objects within the scope of the care so as not to disturb the care.

6. Comment utiliser (Français)

6. 1 Attention



- 1) Assurez-vous d'installer le fil de terre.
(Le fait de ne pas installer un fil de terre peut entraîner un choc électrique.)
- 2) Non utilisé sur les patients avec stimulateur cardiaque

6. 2 Mise en garde





- 1) N'endommagez pas le cordon d'alimentation, ne traitez pas et ne placez pas d'objets lourds.
- 2) Faites attention à la tension (V), à la valeur de courant admissible (A) (ou à la consommation électrique) à la connexion de la source d'alimentation.
- 3) Maintenez la pression du manomètre principal d'eau à 2,5 kgf / cm².
- 4) Maintenez la pression dans le manomètre principal à 5,5 kgf / cm².
- 5) Ne placez pas d'autres objets dans le cadre des soins afin de ne pas perturber les soins.
- 6) Doit être utilisé pour la tension nominale.

6. 4 How to use and how to operate

- 1) Connect the power plug to the outlet.
- 2) Engage the handpiece in the handpiece tubing and place it in the dashboard holder.
- 3) Turn on the power switch.
- 4) Press the position button(auto or manual) to select the position
- 5) Position lighting to match care.
- 6) Patient care is performed by selecting the required handpiece.
- 7) Use the foot switch to adjust the speed of the handpiece to cut the teeth.
- 8) Turn OFF the MAIN S/W to turn off the power of the machine after the examination.

TIP (Button use)

- 1) Press the "P1" button or "P2" button to position the patient in the care position and Let me lie down.
- 2) During treatment, press the "LP()" button or long press the Foot Switch "P1" button to move the patient position to the patient's gap position so that the patient can rinse his or her mouth.
- 3) After completing the treatment, press the "LP()" button or long press the Foot Switch "P1" button to position the patient in the complete care position and allow the patient to exit the care chair.

N2

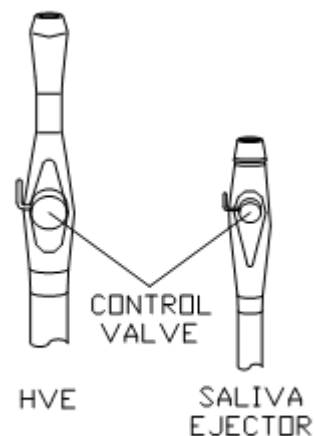
6. 5 Head restraint position adjustment

- 1) To position the head restraint in an appropriate position, position the head restraint while holding LOCKING BUTTON and release the LOCKING BUTTON to secure the position.

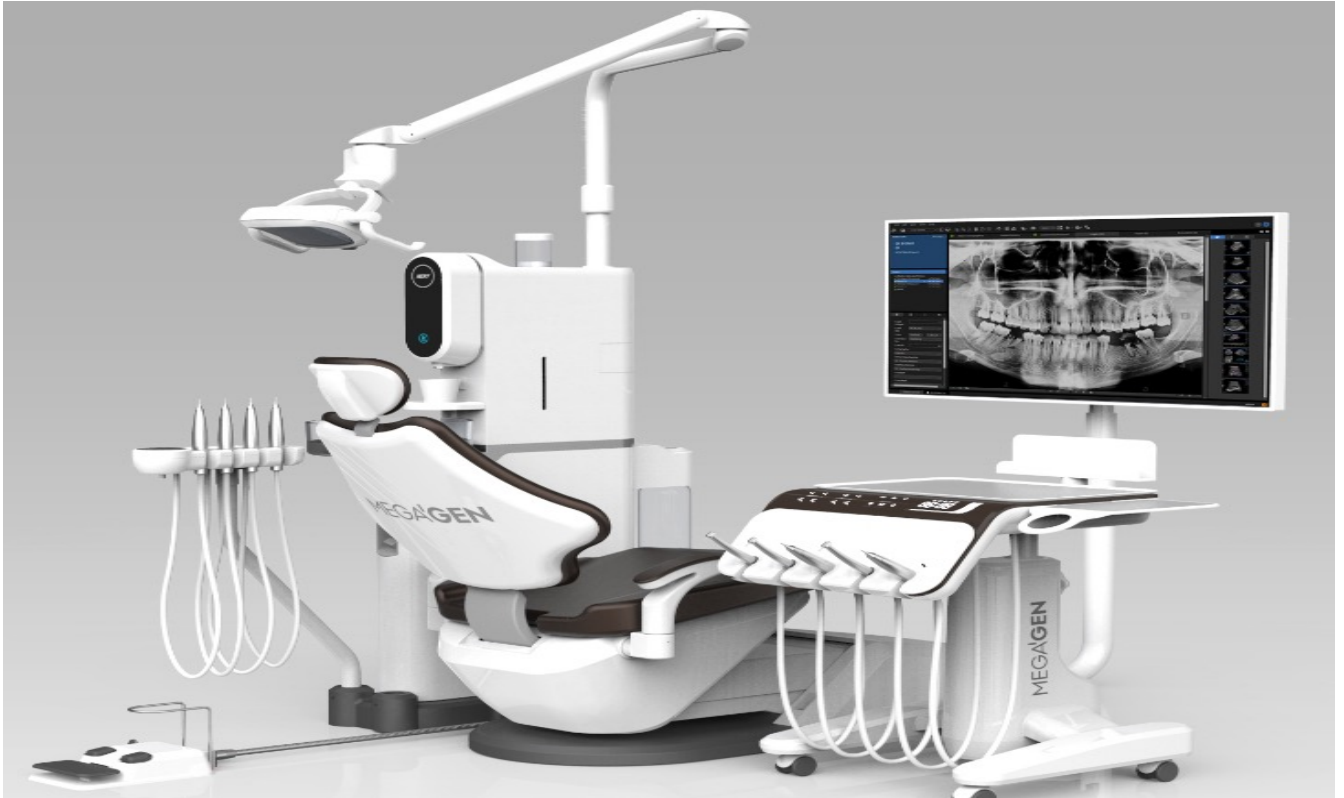


6. 6 Assistant Equipment

- 1) When the HVE and the SALIVA EJECTOR are removed from the holder, the shuffle motors are automatically activated for more convenient treatment.
- 2) The tubing connections on the HVE are adhered to prevent pinching of the tubing when rotated.



6. 7 Dental Light



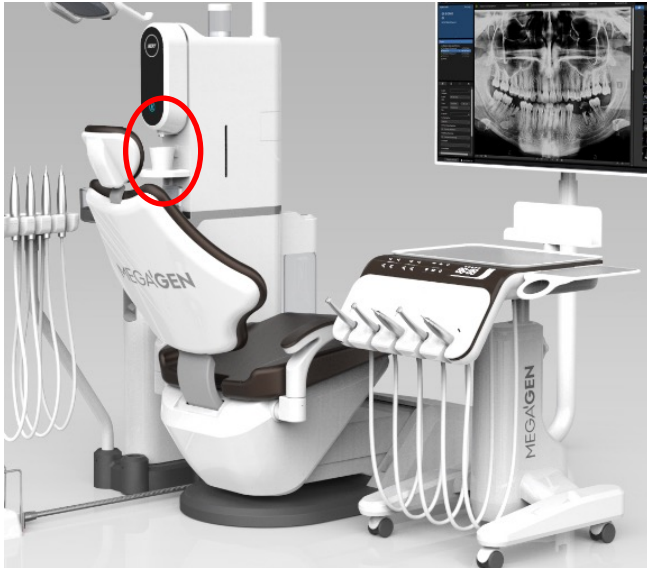
- 1) The dental light is turned on automatically after the chair is moved at the memorized position.
- 2) The dental light can be controlled manually by the toggle switch on light head.
- 3) The tensility of a dental light can be adjusted by fastening or releasing the nut in the balance arm.


N2

6. 8 Arm rest

- 1) The armrest is equipped at seat left and right. The right armrest can be rotated at 90°.
- 2) The armrest is set right position while treatment. And after end, you turn the armrest at 90° for the patient's convenience.

6. 9 Automatic water supply



- 1) The water is supplied to the cup for the 4 seconds after sensing.
- 2) If the water was not supplied, you press the water button () on assist table to supply the water.

Caution



- 1) The water overflow if you press the water button when the water is in the cup.

(Français)

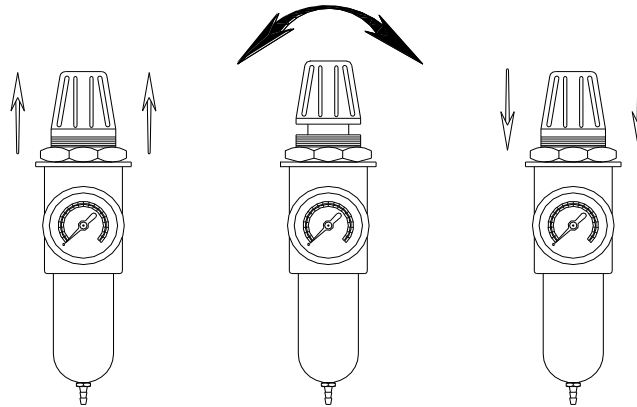
Mise en garde



- 1) Le débordement d'eau si vous appuyez sur le bouton d'eau lorsque l'eau est dans la tasse.

6. 10 AIR adjust the pressure

- 1) Check whether the pressure is maintained at 5kg-6kg and if any abnormalities are found, adjust the regulator (clockwise pressure rise) as shown in the figure.
- 2) When the MAIN ON/OFF toggle switch (MASTER S/W) is on, the water drawn into the AIR FILTER is drained automatically.



6. 11 Post-use management method

- 1) Turn OFF the MAIN S/W to turn off the power of the machine after the examination.
- 2) Hang the hand piece in the dashboard holder and place it in its original position.
- 3) Place the post-care chair in the complete position.
- 4) Disinfect the used apparatus and use the disinfectant if necessary.
- 5) The battalion cleans the inner surface, allowing water to flow from the drain to clean the drainpipe.
- 6) To clean the inside of the pipe, the water drain or the EverCooler is cleaned by absorbing enough water from the end.
- 7) If each part of the dental care unit is disinfected (e.g., the hose of the control panel or insert), apply ethanol or chloride benzene to the Cotton, and clean the surface.
- 8) Be sure to disconnect the power cord from the outlet when it is not in use for a long time.
- 9) Clean each part of the chair and the seat with a dry cloth using a cleaning agent.
- 10) Contact the main office for regular maintenance and maintenance.
- 11) Store it at room temperature.

7. How to store and move products

7. 1 Caution



- 1) **Impacts on equipment during ware movement or storage can cause damage to equipment and personal injury.**
- 2) **Contact the main office to make the move more secure.**

(Français)

7. 1 Mise en garde



- 1) **Les impacts sur l'équipement lors du mouvement ou du stockage des articles peuvent causer des dommages à l'équipement et des blessures corporelles.**
- 2) **Contactez le bureau principal pour sécuriser votre déménagement.**

7. 2 Product storage method

- 1) Store away from water.
- 2) Store away from dust and moisture.
- 3) Care must be taken to store the sloped, vibrating, and impact (including when driving).
- 4) Do not store chemicals in storage or gas.
- 5) Keep it away from direct sunlight.

7. 3 How to Move a Product

- 1) When moving the product, contact the main office to disassemble the product, package it in a standardized packaging box, and prevent damage or damage to the product.

8. Repair and inspection method

8. 1 Warning



- 1) Turn OFF the MAIN S/W and unplug the power cord when inspecting the product. The machine may malfunction or electric shock.

8. 2 Caution



- 1) When repairing a product, contact the main office to check the price requirements and training.

(Français)

8. 1 Attention



- 1) Éteignez le MAIN S / W et débranchez le cordon d'alimentation lors de l'inspection du produit. La machine peut mal fonctionner ou électrocuter.

8. 2 Mise en garde



- 1) Lors de la réparation d'un produit, contactez le bureau principal pour vérifier les conditions de prix et la formation.

N2

8. 3 Daily Inspection

1) Chair

- ① Check power cord connection and check pre-emptively for cladding and risk of leakage.
- ② Check the operation of the chuck and the automatic care position.

2) Table

- ① Check the MAIN ON/OFF toggle switch (MASTER S/W) for normal operation.
- ② Check the amount of water and power of the squelor (selective specification) to adjust it to an appropriate condition.

3) Unit

- ① Check whether the Warmer S/W is "ON" or "OFF".

8. 4 Periodic Checks

- 1) Check the noise and operation of the high hand piece and replace the cartridge periodically.
- 2) Check the noise status of the hydraulic cylinder to top up the hydraulic oil.
- 3) Make sure that the pressure on the main WATER pressure gauge is maintained at 2.5 kgf/cm². (Adjust the regulator to maintain the proper pressure in the event of a change.)
- 4) Verify that the pressure in the main AIR pressure gauge is maintained at 5.5 kgf/cm². (Adjust the regulator to maintain the proper pressure in the event of a change.)

9. Response method in case of failure or abnormality

9. 1 Warning



- 1) Turn OFF the MAIN S/W and unplug the power cord when performing maintenance on the product. The machine may malfunction or electric shock

9. 2 Caution



- 1) When repairing a product, contact the main office to check the price requirements and training.

(Français)

9. 1 Attention



- 1) Éteignez le MAIN S / W et débranchez le cordon d'alimentation lors de la maintenance du produit. La machine peut mal fonctionner ou électrocuter

9. 2 Mise en garde



- 1) Lors de la réparation d'un produit, contactez le bureau principal pour vérifier les conditions de prix et la formation.

N2

9. 3 Response method in case of failure or abnormality

- 1) If the following fault occurs, please proceed with the above information.
- 2) If you cannot repair the site or fail other than the following, please do not repair it and contact us for an A/S.

| No | Symptom | Cause | Action method |
|----|--------------------------|---|--|
| 1 | The chair won't move | <ul style="list-style-type: none"> ▪ No power connected ▪ the break of the Hughes ▪ Safety switch is operating ▪ Handpiece active ▪ Poor P.C.B | <ul style="list-style-type: none"> ▪ Check wall plug connection ▪ Hughes Exchange ▪ Remove Limit Switch Pressure Material ▪ Check the limit switch connection ▪ Request A/S |
| 2 | Handpiece power is weak. | <ul style="list-style-type: none"> ▪ There is little inflow of MAIN AIR. (Check pressure gauge) ▪ Handpiece control block poor operation ▪ Foot control switch inoperative | <ul style="list-style-type: none"> ▪ Check the pressure gauge and adjust the regulator to 5.5 kg/cm² ▪ Handpiece Power Regulating Valve Adjustment ▪ Request A/S |

N2

| No | Symptom | Cause | Action method |
|----|--|--|---|
| 3 | No water from handpiece. | <ul style="list-style-type: none"> ▪ Handpiece nozzle blockage ▪ Handpiece tubing blocked ▪ Blockage in water control valve ▪ Handpiece control block poor operation | <ul style="list-style-type: none"> ▪ Clean the water control valve. ▪ After removing the handpiece from the adapter, place the 3-way syringe at the entrance of the adverter and inject the air into it. ▪ Request A/S |
| 4 | Operation not working. | <ul style="list-style-type: none"> ▪ Poor cleaning of movement filters ▪ a blockage in the hose ▪ Poor automatic limit switch | <ul style="list-style-type: none"> ▪ Clean the filter. ▪ Clean the hose. ▪ Check automatic limit switch ▪ Request A/S |
| 5 | No water coming out from cup filler and ball nozzle. | <ul style="list-style-type: none"> ▪ Photometric sensor malfunction ▪ Poor valve operation | <ul style="list-style-type: none"> ▪ sensitivity control ▪ Request after inspection |

3) Refer to document (QM-QC-2020-0045)

10. Part exchange method

10. 1 Warning



- 1) Turn OFF the MAIN S/W and unplug the power cord to prevent electric shock when exchanging parts.

10. 2 Caution



- 1) Check the specification of the part. Differing specifications can cause product damage and personal injury.

(Français)

10. 1 Attention



- 1) Éteignez le MAIN S / W et débranchez le cordon d'alimentation pour éviter les chocs électriques lors du remplacement des pièces.

10. 2 Mise en garde

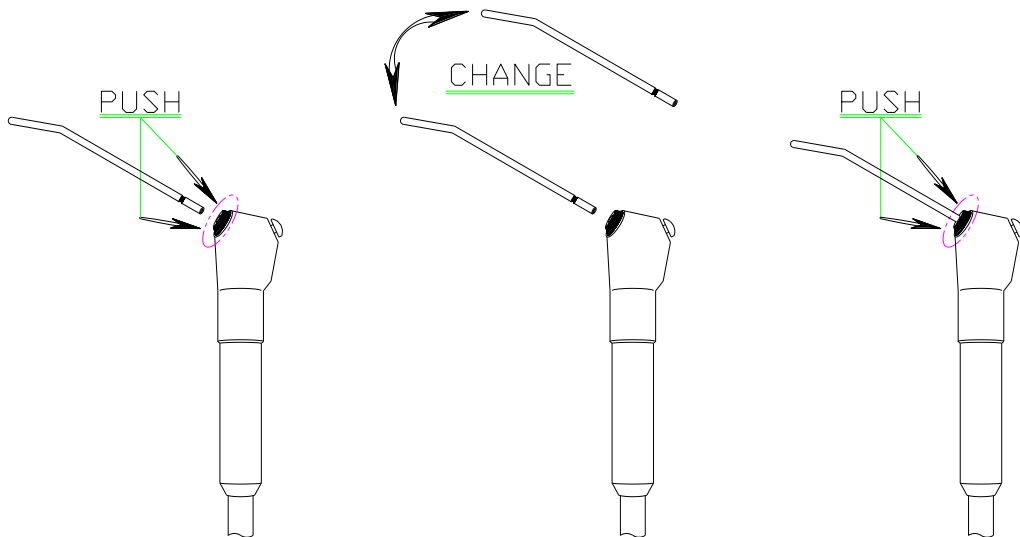


- 1) Vérifiez les spécifications de la pièce. Des spécifications différentes peuvent causer des dommages au produit et des blessures

N2

10. 3 Part exchange method

How to exchange syringe tips : Touch the syringe tip PUSH button as follows, then replace the syringe tip by pressing the syringe tip PUSH button in the same way.



N2

10. 4 Compatible Handpiece (Option)

| Part | Product Name | Coupling | Model Name | Manufacturer |
|--|-----------------------------|-----------|--------------------------|--------------------------------|
| High-speed Handpiece | SYNEA FUSION (Non-Optic) | RQ-04 | TG-97 | W&H Dentalwerk Bürmoos GmbH |
| | | | TG-98 | |
| | SYNEA FUSION (Optic) | RQ-24 | TG-97L | |
| | | | TG-98L | |
| Low-Speed Handpiece | ALEGRA | AM-25E RM | WE-56/ HE-43 | W&H Dentalwerk Bürmoos GmbH |
| Scaler | - | - | Compact S | DMETEC Co., Ltd. |
| Electronic Micromotor and Control Unit | - | - | ELT - B40K ELM - B40S | Micro NX |
| | - | - | ELEC Master | MG NEWTON |

11. Electromagnetic Compatibility Information

| Phenomenon | Basic EMC standard or test method | Operating mode | Port tested | Test Voltage | Test level/requirement |
|--|---|----------------------------|---------------|------------------------------------|--|
| Mains terminal disturbance voltage | CISPR 11:2009 +A1:2010 | Continuous operating state | AC Input Port | AC 220 V, 60 Hz AC 230 V, 50 Hz | Group1, Class A |
| Radiated disturbance | CISPR 11:2009 +A1:2010 | Continuous operating state | Enclosure | AC 220 V, 60 Hz AC 230 V, 50 Hz | Group1, Class A |
| Harmonic Current Emission | EN 61000-3-2:2006 +A1:2009 IEC 61000-3-2:2009 | Continuous operating state | AC Input Port | AC 220 V, 60 Hz AC 230 V, 50 Hz | Class A |
| Voltage change, Voltage fluctuations and Flicker Emission | EN 61000-3-3:2008 IEC 61000-3-3:2008 | Continuous operating state | AC Input Port | AC 220 V, 60 Hz AC 230 V, 50 Hz | Pst: 1 Plt: 0.65 dmax: 4% dc: 3.3% |
| Electrostatic Discharge Immunity | EN 61000-4-2:2009 IEC 61000-4-2:2008 | Continuous operating state | Enclosure | AC 220 V, 60 Hz AC 230 V, 50 Hz | ± 8 kV/Contact ± 2, ± 4, ± 8, ± 15 kV/Air |
| Radiated RF Electromagnetic Field Immunity | EN 61000-4-3:2006 +A2:2010 IEC 61000-4-3:2010 | Continuous operating state | Enclosure | AC 220 V, 60 Hz AC 230 V, 50 Hz | 3 V/m 80 MHz-2.7 GHz 80% AM at 1 kHz |
| Immunity to Proximity Fields from RF wireless Communications Equipment | EN 61000-4-3:2006 +A2:2010 IEC 61000-4-3:2010 | Continuous operating state | Enclosure | AC 220 V, 60 Hz AC 230 V, 50 Hz | Table 9 in IEC 60601-1-2: 2014 |
| Electrical Fast Transient/Burst Immunity | EN 61000-4-4:2012 IEC 61000-4-4:2012 | Continuous operating state | AC Input Port | AC 220 V, 60 Hz AC 230 V, 50 Hz | AC Line: ± 2 kV Signal: ± 1 kV 100 kHz repetition frequency |
| Surge Immunity | EN 61000-4-5:2014 IEC 61000-4-5:2014 | Continuous operating state | AC Input Port | AC 220 V, 60 Hz AC 230 V, 50 Hz | Line to Line ± 0.5 kV, ± 1 kV Line to Ground ± 0.5 kV, ± 1 kV, ± 2 kV |
| Immunity to Conducted Disturbances Induced by RF fields | EN 61000-4-6:2014 IEC 61000-4-6:2013 | Continuous operating state | AC Input Port | AC 220 V, 60 Hz AC 230 V, 50 Hz | AC Line & Signal: 3 V, 0.15-80 MHz 6 V in ISM bands Between 0.15 MHz and 80 MHz 80% AM at 1 kHz |
| Power Frequency Magnetic Field Immunity | EN 61000-4-8:2010 IEC 61000-4-8:2009 | Continuous operating state | Enclosure | AC 220 V, 60 Hz AC 230 V, 50 Hz | 30 A/m 50 Hz & 60 Hz |
| Voltage dips | EN 61000-4-11:2004 IEC 61000-4-11: 2004 | Continuous operating state | AC Input Port | AC 220 V, 60 Hz AC 230 V, 50 Hz | 0 % U_T ; 0.5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0 % U_T ; 1 cycle and 70 % U_T ; 25/30 cycles Single phase: at 0° |
| Voltage interruptions | EN 61000-4-11:2004 IEC 61000-4-11: 2004 | Continuous operating state | AC Input Port | AC 220 V, 60 Hz AC 230 V, 50 Hz | 0 % U_T ; 250/300 cycle |

12. Quality Guaranteed

12. 1 The MegaGen Implants Perform The Following Quality Assurance.

- 1) The warranty period is three years from the date the product is installed.
(Warranty coverage is limited to technical defects or material problems with the product.)
- 2) Syringe Tip is six months.

12. 2 MegaGen Implant is supported as follows.

- 1) Supports the technical personnel required to replace and repair parts
- 2) Defects due to external influences such as natural disasters are excluded from quality assurance.
- 3) Damage to the equipment caused by medications for cleaning, preventing infection and disinfection is excluded from the quality assurance scope, so be careful.

12. 3 Other consumable parts, such as light LED bulbs, are excluded from the warranty.

12. 4 Scaler, 3-way syringe, High Hand piece, and Low Hand piece sold by other manufacturers are excluded from the warranty.

※ Installation of employees or dealer staff designated by the head office of this equipment;
You are not responsible for defects caused by installation, repair or modification other than maintenance actions.



The name and trade name of all products in this User's Guide and their
ownership of the trademark are in MEGAGEN.

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