# OPERATOR'S MANUAL SKEMA 5 SURGICAL SINGLE CART

# LCD

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CEFLA S.C. VIA SELICE PROVINCIALE 23/A - 40026 IMOLA (BO) ITALY PLANT: VIA BICOCCA 14/C - 40026 IMOLA (BO) - ITALY

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3





#### **GENERAL WARNINGS** 1.

#### · These instructions explain how to correctly use the following dental unit:

SKEMA 5 (SN. 71CN)	
SURGICAL SINGLE CART (SN. 71CZ)	

SKEMA 5 CP (SN. 71CT)

#### SUF

Please carefully read this manual before using the device.

- The dental units described in this manual are manufactured by CEFLA s.c. via Selice Provinciale 23/A 40026 Imola (BO) Italia, a manufacturer complying with the European Directive on medical devices.
- These instructions describe all the versions of the dental units with the maximum possible accessories, therefore not all the paragraphs are applicable to the unit you have purchased.
- · The information, technical specifications and illustrations contained in this publication are not binding.
- · CEFLA s.c. reserves the right to introduce modifications and technical improvements without having to modify these instructions.
- The manufacturer has a company policy of continual development. Although every effort is made to keep technical documentation up-to-date at all times, some of the instructions, specifications and figures given in this manual may slightly differ from the purchased product. The manufacturer reserves the right to make changes without prior notice.
- The original text is in Italian; this is a translation from the original in Italian.
- The manufacturer's website contains a list of authorised agents of the various countries.
- EU REG. 2016/679 GDPR INFORMATION: we inform the user that by activating the connection of the devices to the Internet, the device will automatically direct data to the Easycheck and Di.V.A. web portals. CEFLA s.c. declares that this data collection exclusively concerns telemetry data on the operation of the devices, that this data collection does not concern and does not involve the processing of personal data. The Easycheck and Di.V.A. web portals comply with the requirements of ISDP©10003:2020 - Control rules and requirements for the certification of data processing processes with regard to the assessment of respect for the fundamental rights of natural persons and the free movement of data.

#### 1.1. SYMBOLS

#### Note the meaning of the following symbols and expressions:

- Type of protection against direct and indirect contact: Class I.
- Type of protection against direct and indirect contact: Type B.



WARNING!

Failure to observe may result in equipment damage or injury to the user and/or patient.

"Consult the instruction manual" It means that it is advisable to consult the instruction manual before using that part of the device.



#### NOTE:

Identifies information that is especially important for the user and/or the assistant.

Protective ground contact.

#### Alternating current.

Part that can be sterilized in a steam autoclave up to 135° C.

ON / OFF button.

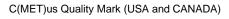
"Refer to the instruction manual" Means that for reasons of safety you need to consult the instruction manual before using the equipment.

Off (a part of the unit).

On (a part of the unit).

Equipment On.

Equipment OFF.





CE

Disposal symbol in accordance with Directive 2012/19/EU.

directive 93/42/EU and subsequent changes

(Class I Medical Device).

SKEMA 5 ORTHO (SN. 71CS)



"Warning biological hazard". It provides information about possible risks of contamination deriving from contact with fluids, storage of infected biological waste.

Accessory in compliance with essential requirements of



Manufacturer.



Equipment date of manufacture.



Device serial number. DVGW compliance mark.



Product/equipment identification code.



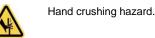
Pushing prohibited.

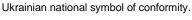
Foot crushing hazard.

Equipment equivalent to Class 2 light source.



JA.TR.101





Tipping hazard.



мет







Equipment in compliance with essential requirements of directive 93/42/EU and subsequent changes (Class IIa Medical Device). Notified body: IMQ spa.



Medical device.



"Refer to the Technical Manual" It means that for reasons of safety you need to consult the Technical Manual before using the equipment.



The operator's manual is provided in electronic format.

#### 1.2. INTENDED USE

The device is a <u>dental unit</u> consisting of components and/or devices that are functionally connected, such as the patient chair, dental unit, dental handpieces, multifunction pedal and operating light.

The dental unit is intended for professional dental treatment, for example to treat oral and dental pathologies of varying degrees of clinical form, stage, gravity; and to manage and provide support for dental and oral diagnosis, treatments, post-operative controls for oral health, prevention and prophylaxis. The prevailing medical conditions to be treated with the dental unit belong to the following branches of dentistry and oral health:

- Oral Hygiene;
- Orthodontics;
- Conservative dentistry and Prosthesis;
- · Periodontology;
- Endodontics;
- Implants;
- Oral Surgery.

In order to achieve its intended use, the dental unit may support and control the following parts or devices, if supplied:

- · Air/water syringe;
- Turbine;
- · Micromotor;
- Scaler;
- Ultrasonic surgical equipment;
- Curing Light;
- Intraoral camera;
- Intraoral X-ray sensor;
- Intraoral 3D Scanner;
   On anothing Light:
- Operating Light; Suction system;
- Multimedia systems;
- · Intraoral X-ray equipment (support only, excluding management)

The dental chair is designed to support and position the patient during dental treatment.

#### Contraindications

The device is not intended for the following uses and/or applications:

- · Use on unintended anatomical areas;
- · Use on patients weighing more than the maximum permitted load;
- Use on non-alert or uncooperative patients or patients unable to maintain their position for the duration of the operation;
- · Use by an unauthorised dental practitioner;
- Use by an operator not trained on the device.

#### Characteristics of the dental unit

- · The dental units described in this manual are Medical Devices intended for dental treatment.
- The dentist's board may hold up to 6 instruments.
- · The assistant's board can hold 2 suction tubes and 3 instruments.
- · This equipment must be used only by adequately trained personnel (dentists and paramedics).
- The device is intended for non-continuous operation with intermittent loads (see the operating times of the individual parts in the dedicated sections).
- The device is classified as pollution degree 2 (under IEC 60601-1).
- Overvoltage category (under IEC 60664-1): II.



#### (for American and Canadian markets only):

Dental units and relevant accessories are intended for dental treatment and provide the dentist with a user interface allowing to control the operation of dental chair and all connected instruments. The system supplies air, water, a suction system and electricity to allow the dentist to intuitively control all the procedures for patient care normally performed in a dental surgery. Federal law restricts the sale of this equipment to dentists only.

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#### 1.2.1. CLASSIFICATION AND REFERENCE STANDARDS

- <u>Classification of MEDICAL DEVICES:</u>
- Classification of the dental unit in accordance with the indications given in annex IX of directive 93/42/EC as amended and supplemented: Class IIa. • <u>Classification of ELECTRICAL MEDICAL EQUIPMENT:</u>
- Classification of the dental unit in accordance with standard EN 60601-1 on safety of medical equipment: Class I Type B.
- Reference standards: the dental units described in this manual are designed in compliance with IEC 60601-1:2005 + CORR.1 (2006) + CORR.2 (2007) (Ed.3), IEC 60601-1-6:2010 (Ed.3), IEC 62366:2007 (Ed.1), IEC 80601-2-60:2012 (Ed.1), IEC 60601-1-2:2014 (Ed.4), IEC 62304:2006 (Ed.1), ISO 6875:2011 (Ed.3), ISO
- 7494-1:2011 (Ed.2) and EN 1717:2000 (Ed.1) standards on devices for the safety of the water system (protection unit type AA and AB).

#### 1.2.2. ENVIRONMENTAL CONDITIONS

The equipment is to be installed in rooms that satisfy the following requirements:

- temperature between 10 and 40°C;
- relative humidity between 30 and 75%;
- atmospheric pressure ranging from 700 to 1060 hPa;
- altitude ≤ 3000 m;
- air pressure entering equipment ranging from 6 to 8 bar;
- water hardness at the equipment inlet must not be above 25 °f (French degrees) or 14 °d (German degrees) for untreated drinking water. For water with a higher hardness degree, it is recommended to soften water until it reaches a hardness degree between 15 and 25 °f (French degrees) or between 8.4 and 14 °d (German degrees);
- water pressure entering equipment ranging from 3 to 5 bar;
- water temperature entering equipment not higher than 25°C.
- water conductivity at 20°C: < 2000 µS/cm.</li>

#### 1.2.2.1. STORAGE CONDITIONS

- Temperature between -10 and 70°C;
- Relative humidity between 10 and 90%;
- Atmospheric pressure: from 500 to 1060hPa.

#### 1.2.3. WARRANTY

CEFLA s.c. stands behind its products warranting safety, reliability and performance.

- The warranty is valid only under the following terms:
- Conditions given on the warranty certificate are observed.
- · Yearly scheduled maintenance is performed.
- · The equipment is used only as instructed in this manual.
- The electric system in the room in which the equipment is installed must conform to IEC 60364-7-710 (standards for electric systems in medical and dental offices).
- A 3x1.5 mm<sup>2</sup> line protected by a bi-polar cut-out that conforms to applicable standards (10 A, 250 V, distance between contacts at least 3 mm) must be used to feed the equipment.



#### The colour of the three wires (POWER, NEUTRAL and EARTH) should satisfy the requirements of current standards.

• Installation, repairs, equipment enlargement, settings and, in general, any other operation requiring the casing to be opened are to be performed exclusively by personnel authorised by CEFLA s.c..

#### 1.2.4. DISPOSING THE EQUIPMENT WHEN NO LONGER USED

In compliance with Directives 2011/65/EU and 2012/19/EU regarding restriction of the use of certain hazardous substances in electrical and electronic equipment along with waste electrical and electronic equipment, it is forbidden to dispose of this equipment in the municipal waste stream as unsorted municipal waste.

When purchasing a new device of an equivalent type, one for one, the device that has come to the end of its lifetime should be returned to the dealer for disposal. As regards reuse, recycling and other forms of recovery of waste electrical and electronic equipment, the Manufacturer carries out the functions defined by current local laws. Appropriate differentiated waste collection for subsequent recycling treatment and environmentally friendly disposal contributes to preventing possible negative effects on the environment and health and encourages recycling of the materials of which the device is made up. The symbol indicating separate collection for electrical and electronic equipment consists of the crossed out bin marked on the equipment.



#### Under local legislation, fines can be imposed if the equipment is disposed in an illegal manner.

EN

6





#### 1.3. SAFETY WARNINGS

- · All equipment is permanently installed.
- Depending on the type of dental chair the dental unit comes with, refer to the installation SCHEMATICS in paragraph DATA SPECIFICATIONS.
- The CEFLA s.c. shall not be held liable for any personal injury or property damage arising from failure to heed the following clause.

#### Floor conditions.

- The floor (continuous) should meet the load-bearing capacity set forth by DIN 1055, sheet 3.
- The weight of the dental unit, including the patient weight, is about 400 kg.
- For further details on anchoring conditions, refer to the Installation Manual.
- The positions of delivery and drain line connections comply with standard ISO 7494-2.

In case of floor installation without load distribution plate, floor characteristics must ensure a breaking strength of the anchor bolt not less than 1200 daN each (considering RcK concrete strength 20 MPa). In case of floor installation with load reduction plate, floor characteristics must ensure a strength of the anchor bolt not less than 260 daN.

- This device may not be modified in any way without the authorisation of the manufacturer.
- If the device is modified, appropriate examinations and tests need to be conducted in order to ensure continued safe use.

The CEFLA s.c. shall not be held liable for any personal injury or property damage arising from failure to heed the following clause.

Dental chair.

- The maximum load values indicated in the DATA SPECIFICATIONS paragraph must never be exceeded.
- Tray holders.
- The maximum weights that can be held **must** never be exceeded:
- tray holder attached to the dentist's board, maximum permitted load on the tray 2 kg, evenly distributed.
- tray holder attached to the assistant's board, maximum permitted load on the tray 1 Kg, evenly distributed.
- auxiliary tray holder, maximum permitted load on the tray 3.5 Kg (without negatoscope) or 2.5 Kg (with negatoscope).
- Connections to external instruments.
- The equipment can be electrically connected only to other instruments that bear the CE mark.
- Electromagnetic interferences.

Use of electrical equipment that does not comply with standard IEC 60601-1-2 in the surgery or nearby may cause electromagnetic or other types of interferences resulting in dental unit malfunctions.

In these cases, it is recommended to shut off power to the dental unit before using this equipment.

#### Replacing the drills.

Operate the turbine release and contra angle devices only once the drill has come to a complete stop. Failure to do so will result in damaging the locking system and drills could be released and cause injury. Exclusively use high-quality drills with a connection rod having a calibrated diameter. To check the conditions of the locking system, make sure the drill is firmly secured to the instrument every day before starting work. Locking system defects caused by misuse can be easily identified and are not covered by the warranty.

The drills and various instruments attached to the handpieces must comply with Biocompatibility Standard ISO 10993.

Patients with active implantable medical devices.

When treating patients with implanted active devices, such as cardio-stimulators, hearing aids or other active devices, the possible effects of the instruments used on the implanted device should be considered. Please refer to the technical-scientific literature available on this subject and to the instructions for use of said devices.

Use with external instruments.

If the dental unit is used for operations using separate standalone equipment such as mobile equipment for implants or endodontics, you are recommended to power off the dental chair to avoid unwanted movements resulting from accidental start up of the movement controls.

- · Do not forget to turn off the office water supply and main switch on the equipment before leaving the surgery.
- The equipment is not protected against liquid penetration IP X0.
- The equipment is not suitable for use in the presence of a mixture of flammable anaesthetic gas with oxygen or nitrous oxide.
- This equipment must be stored properly so that it is kept in top working order at all times. The manufacturer shall not be held responsible (under civil and criminal law) for misuse, carelessness or improper use of the equipment.
- The equipment may only be used by authorised and adequately trained staff (physicians and paramedics).
- The user must be present at all times when the equipment is turned on or ready for start-up. In particular, never leave the equipment unattended in the presence of children/the mentally disabled or other unauthorised personnel in general. Any accompanying person must stay outside the area in which the treatment is performed and in any case on responsibility of the operator.
- The operating area refers to the space around the dental unit plus 1.5 meters.
- Quality of the water delivered by the dental unit.
- The user is responsible for the quality of the water delivered by the dental unit and must adopt measures to maintain the water quality.
- To ensure that delivered water is kept to quality standards, CEFLA s.c. recommends equipping the dental unit with an internal or external disinfection system.

The dental unit, once installed, is exposed to possible contaminants coming from the water mains. So, to effectively overcome this problem, it is recommended to install and operate the dental unit only at the moment in which the professional will use it daily and perform the disinfecting procedures starting from the day in which it is installed by following the instructions set forth in the relevant sections.

If the dental unit is equipped with the air separation device from water mains (EN 1717), make sure that the expected continuous supply of disinfectant is also carried out by ensuring that the relevant tank contains a suitable quantity of disinfectant (see relevant paragraph).

Contact your local dealer or Association of Dentists for more detailed information about national laws and requirements.

#### Applied parts.

The parts that, during standard use, necessarily come into contact with the patient in order for the device to carry out **its** functions correctly, are: dental chair upholstery, armrest, curing light fibre optic, terminal part of the syringe, single-use camera protection, scaler tips, handpiece drills, suction tube holder terminals.





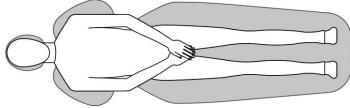


Non applied parts that may come into contact with the patient are: dental chair armrest support, dental chair lower casing, patient-side water unit casing, water-to cup-spout, bowl, suction tubes, handpiece body.

Dental chair movement.

Make sure that the patient is ready to collaborate: ask him/her to keep his/her hands and feet close, avoiding incorrect postures.

#### Check that the patient is sitting properly when moving the chair (see figure).



#### 1.4. ELECTROMAGNETIC SAFETY

#### Electromagnetic immunity.

The device is intended for use in environments recognised as professional health facilities, as described in IEC 60601-1-2:2014. The device belongs to CISPR 11 Class A Group 1 and complies with immunity test levels specified by IEC 60601-1-2:2014 for professional health facilities.

Before using any electronic device in health facilities, always check that it is compatible with the other equipment present.

If it is used in a residential environment (as specified in CISPR 11 class B) this equipment might not offer adequate protection to radio-frequency communication services. The user might need to take mitigation measures, such as relocating or re-orienting the equipment.

For further information on immunity levels and characteristics of the electromagnetic environment, see the specific tables in paragraph TECHNICAL SPECIFICATIONS.



• Use of this equipment adjacent to or stacked with other equipment should be avoided, because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.

• Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.

 Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the device, including cables specified by the manufacturer.

Otherwise, degradation of the performance of this equipment could result. • Do not subject the device to strong electromagnetic disturbances.

Electrical medical equipment are subject to special precautionary measures in relation to electromagnetic compatibility (EMC). The equipment must be installed and used according to the Manufacturer's instructions. Failure to observe the installation requirements and the Manufacturer's instructions could affect the equipment position and the correspondence of its operating parameters.

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#### 1.5. CLEANING AND DISINFECTION

Cleaning is the first step required for any disinfection process.

Physically scrubbing with detergents and surface-active substances and rinsing with water removes a considerable amount of micro-organisms. If the surface is not first cleaned, the disinfection process cannot be successful.

If a surface cannot be adequately cleaned, it should be protected with barriers.

The outer parts of the equipment must be cleaned and disinfected using a product for hospital use with indications for HIV, HBV and tuberculocidal (medium-level disinfectant) specific for small surfaces.

The various drugs and chemical products used in dental surgeries may damage the painted surfaces and the plastic parts. Researches and tests performed show that the surfaces cannot be fully protected against the harsh action of all products available on the market. We therefore recommend protecting with barriers whenever possible.

The harsh actions of chemical products also depend on the amount of time they are left on the surfaces.

It is therefore important not to leave the product on the surfaces longer than the time specified by the manufacturer.

It is recommended to use the specific medium-level disinfectant, STER 1 PLUS (CEFLA s.c.), which is compatible with:

Coated surfaces and plastic parts.

• Upholstery.

The MEMORY FOAM upholstery will stain when splashed with mordant acid. Immediately rinse with plenty of water if acid spatters on the upholstery.

· Uncoated metal surfaces.



STER 1 PLUS must be used as specified by the Manufacturer.

If you do not use STER 1 PLUS, it is recommended to use products that contain at maximum:

- Ethanol. Concentration: maximum 30 g per 100 g of disinfectant.
- 1-Propanol (n-propanol, propyl alcohol, n-propyl alcohol). Concentration: maximum 20 g per 100 g of disinfectant.
- Combination of ethanol and propanol. Concentration: the combination of the two should be maximum 40 g per 100 g of disinfectant.
  - Do not use products containing isopropyl alcohol (2-propanol, iso-propanol).
    - Do not use products containing sodium hypochlorite (bleach).
    - · Do not use cleaners containing phenols.
    - · Do not spray the selected product directly on the surfaces.
    - All products must be used as directed by the manufacturer.
    - Do not mix the STER 1 PLUS disinfectant with other products.



The products suggested are compatible with the materials of the equipment, however damages may occur to surfaces and materials resulting from the use of different products, even if not included in the above list of excluded products.

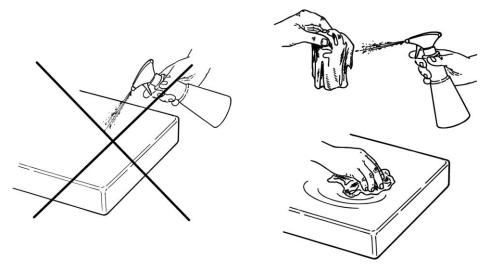
#### Cleaning and disinfecting instructions.

Clean and disinfect with disposable non-abrasive paper (avoid using recycled paper) or sterile gauze. Do not use sponges or, in any case, any material that can be reused.



It is recommended to turn off the dental unit prior to cleaning and disinfecting the external parts.

All materials used for cleaning and disinfection must be thrown away upon completing the procedure.



The cleaning/disinfection/sterilization times of each element of the dental unit are listed in the booklet "PROTOCOL FOR HYGIENIC MAINTENANCE OF THE DENTAL UNIT", also supplied with the unit.

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#### 1.6. STERILISATION

Every instrument supplied is NOT STERILE and must be sterilised in steam autoclave (max. 135°C) before use, without performing any type of chemical sterilization.

Sterilization must be performed using appropriate packaging materials, verified during the sterilization process validation.

It is recommended to sterilize in steam autoclave (moist heat) through a cycle with pre-vacuum (forced air removal).

Autoclaves must comply with and be approved and maintained in accordance with the requirements set forth by the Standards EN 13060 (or ANSI/AAMI ST55), EN ISO 17665-1 and ANSI/AAMI ST79.

Below are the minimum recommended parameters for the sterilization of reusable medical devices, that have been approved in order to ensure a sterility assurance level (SAL) equal to 10^-6:

- Cycle type: with pre-vacuum (Pre-vac).
- Method: "overkill" moist heat sterilization according to Standard ISO 17665-1.
- Minimum temperature: 134° C (273° F) for heat-resistant materials (instruments and metal handpieces, etc.);121°C (250°F) for thermolabile materials (rubber items, etc.).
- Minimum exposure time (1): 4 minutes (at 134°C), 20 minutes (at 120°C).
- Minimum drying time (2): defined to ensure compliance with the requirements of Standard EN 13060 (or ANSI/AAMI ST55).
- 1 Exposure time: time during which the load and the entire chamber are kept at a temperature higher than the sterilization one.
- 2 Drying time: time during which steam is removed from the chamber and the chamber pressure decreases to allow the condensate to evaporate from the load through a prolonged emptying or thanks to the supply of hot air or other gases then removed.
- The drying time varies according to the load configuration and the packaging type and material.





#### 2. DESCRIPTION OF THE EQUIPMENT

#### 2.1. IDENTIFICATION PLATES

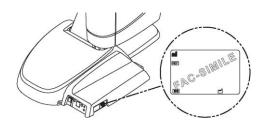
Data given on plate:

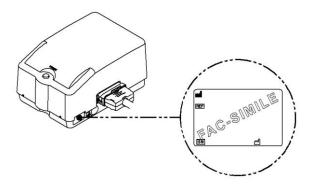
- Name of manufacturer.
- Name of equipment.
- Rated voltage.
- Type of current.
- Rated frequency.
- Maximum current or power absorbed.
- Serial number.
- Date of manufacture.

#### Nameplate position.

Dental units model: SKEMA 5 SKEMA 5 CP SKEMA 5 ORTHO

Dental units model: SURGICAL SINGLE CART









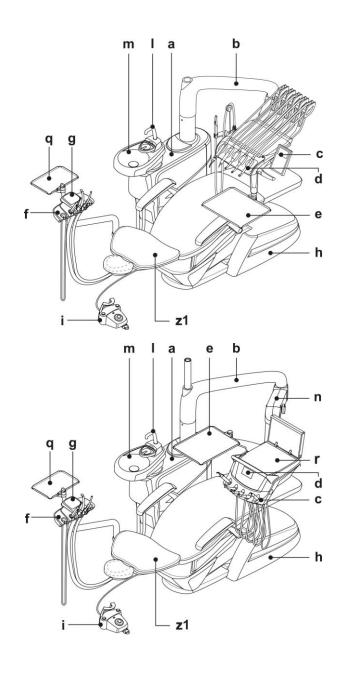
#### 2.2. DENTAL UNITS

#### Description of the parts.

- a Water unit.
- **b** Adjustable arm.
- C Dentist's board.
- **d** Dentist's control console.
- **e** Tray holder (optional).
- **f** Assistant's board.
- **g** Assistant's board control console.
- **g1** ORTHO assistant's board control console.
- **h** Connection box.
- i Multifunction foot control.
- Water-to-cup spout.
- **m** Bowl unit.
- **n** Self-balancing arm.
- **q** Tray holder board on assistant's board (optional).
- **r** Negatoscope for panoramic X-rays (optional).
- **S** "PROFESSIONAL" auxiliary board (optional).
- **X** Height-adjustable cart.
- **z1** NEW SKEMA dental chair.

#### Model SKEMA 5 (SN.71CNxxxx)

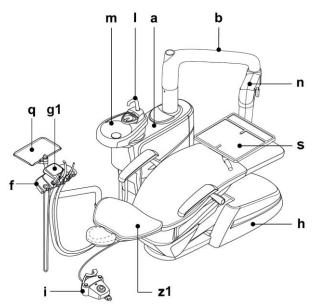
Model SKEMA 5 CP (SN.71CTxxxx)







Model SKEMA 5 ORTHO (SN.71CSxxxx)



d c r h x i

Model SURGICAL SINGLE CART (SN. 71CZxxxx)



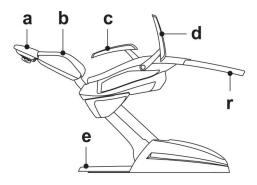


#### 2.3. DENTAL CHAIR

#### Description of the parts.

- A Headrest.
- **b** Backrest.
- **C** Left movable armrest (optional).
- **d** Right movable armrest (optional).
- e Stop foot board.
- **r** Sliding footrest.

#### NEW SKEMA model dental chairs



#### Operating time.

The operating and rest times are as follows: work 25 sec. - rest 10 min.

#### Maximum permitted load.

- Maximum permissible load on the dental chair: see DATA SPECIFICATIONS.
- Maximum load supported by armrest: 68 kg.



Do not exceed these values.

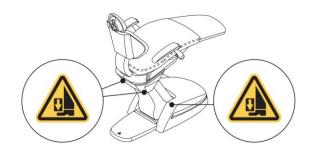
#### Warnings for use



#### **CRUSHING HAZARD**

Despite the presence of safety systems to prevent crushing, there is always a minimum residual risk due to moving parts. The positions already stored ensure a safety distance between dental chair and floor. Do not store lower dental chair positions, and in any case pay attention to the risk of crushing.

**NEW SKEMA model dental chairs** 



#### 2.4. SPECIAL WARNINGS

#### CART models.



TIPPING HAZARD.

To move the cart, grab the relevant handle(s). When a device has to be moved from one room to another, place the board in the lowest position.

When moving it, take care to any step and/or horizontal obstacle as cart could become unstable and/or even overturn.







#### $\ensuremath{\mathsf{SURGICAL}}$ SINGLE CART power cable with disconnectable connector.

To disconnect the disconnectable connector, proceed as follows:

- turn off the main switch on the box,
- turn the outlet lever (b) upwards,
- · remove the connector,
- close the outlet flap  $(\ensuremath{\textbf{c}})$  to prevent any damage to contacts.



Make sure the device is off before disconnecting the disconnectable connector. Handle the disconnectable connector with care to avoid damaging contacts when moving the CART from one room to the other.



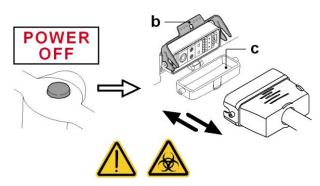
#### **BIOLOGICAL HAZARD.**

Some water may leak out upon disconnection. It is recommended to use gloves and goggles to prevent any accidental contact.

· to insert the connector again, proceed in the reverse order.



Do not step on the disconnectable connector when it is connected to the box. The outlet is equipped with a safety contact that cuts off the power supply in case of unusual power loads.





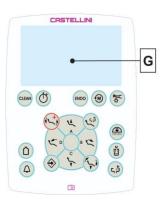


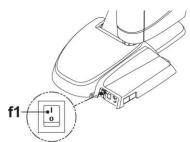
#### 3. STARTING

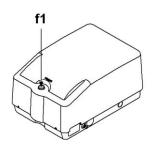
Press the main switch (f1)

- Switch (f1) on:
  - equipment ON;
  - · electric system powered;
  - · water and air system connected;
  - DISPLAY (G) on.
- Switch (f1) off:
  - equipment OFF;
  - · electric system not powered;
  - water and air system not connected;
  - DISPLAY (G) off.

Dental units model: SKEMA 5 SKEMA 5 CP SKEMA 5 ORTHO







Dental units model: SURGICAL SINGLE CART



Main switch must be pressed with your hands.





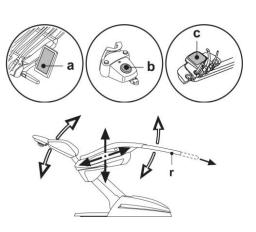
#### 4. DENTAL CHAIR OPERATION

#### Dental chair movements.

- The dental chair can be operated from the following units:
- Dentist's board (a) (see par. 5.).
- Multifunction foot control (b) (see par. 5.2.).
- Assistant's board (c) (see par. 6.).

NEW SKEMA dental chair movements:

- · Seat up/down.
- Backrest up/down with inclination of the seat (compensated Trendelenburg).
- The footrest (r) can be manually extracted for approx. 10 cm.



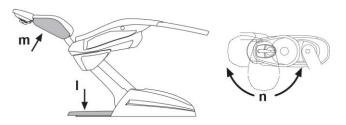
#### 4.1. SAFETY DEVICES

Dental units are equipped with safety devices that, in the presence of an obstacle, immediately stop the dental chair's movements.

#### Description of safety devices.

- Stop foot board: when pressed, it immediately stops dental chair from moving down and automatically lifts it up to free the obstacle.
- **M** Dental chair's backrest: it immediately stops dental chair from moving down in the presence of an obstacle and automatically lifts it up to free the obstacle.
- **n** Bowl: when the bowl is manual and located in the interference area, the dental chair up movement is stopped at the maximum permitted height.
  - With motor-driven bowl, the safety device automatically moves the bowl out of the interference area with the dental chair.

Dental units model: SKEMA 5 SKEMA 5 CP SKEMA 5 ORTHO



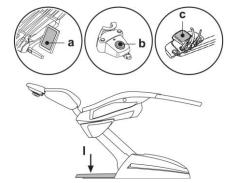
#### Dental chair movements:

- with the instrument extracted NOT working: manual movements allowed, automatic movements inhibited, but if they are already in progress at the moment of extraction they are not interrupted;
- with instrument extracted and working: all the dental chair movements are inhibited.

#### 4.2. MOVEMENT LOCK DEVICES



- Use the devices below when movement of the equipment needs to be blocked:
- Dental chair control buttons (a) or (c).
- By pressing any of the dental chair control buttons all movements will be stopped. • Foot control (b).
- When the foot control is actuated, all movements of the equipment are blocked.
- Stop foot board (I).
- When the floor board is actuated, all movements of the equipment susceptible to cause squashing are blocked.







#### 4.3. ADJUSTABLE HEADREST

#### Warnings for use.



- · Do not attempt to move headrest while patient is resting against it.
- Do not attempt to modify the position of the cushion without first releasing the lock mechanism.

• The pneumatic locking device is active only when the air circuit is pressurised and the dental unit is on.

#### **Headrest models**

- Available models are:
- 1 with manual cushion retainer
- 2 with air-operated cushion retainer

#### Adjusting the manual headrest

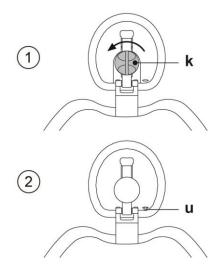
- · Lift or lower the headrest to the desired position.
- Unlock the cushion by turning the lock knob (k) counter-clockwise.
- · Aim the cushion as desired.
- · Lock the cushion again by turning the knob (k) clockwise.

#### Adjusting the air-operated headrest



Only when the dental unit is on.

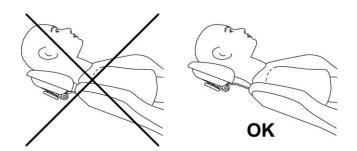
- Raise or lower the headrest while holding down button (u).
- Aim the cushion as desired while holding down button (u).



#### Proper positioning of the headrest.



For correct use of the headrest, position the patient's head as shown in the figure.



#### 4.4. MOVABLE ARMRESTS (OPTIONAL)

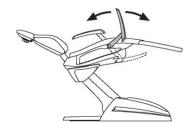


Maximum load supported by armrest: 68 kg.

Turn movable armrest clockwise to move it downwards, so that the patient can easily get on and off the chair.



Armrests cannot be extracted from the seat.







#### 5. DENTIST'S BOARD OPERATION

#### Layout of instruments.

The positions of the instruments on the board are determined by the customer at the time of order.

#### Enabling the instruments.

- Syringe is always on (see paragraph 5.3.).
- The curing light is turned on by the relevant button, when the instrument is extracted (see paragraph 5.7.).
- Intraoral camera turns on when the instrument is extracted (see paragraph 5.8.).
- · ZEN-Xi integrated sensor is started by turning its support to the "ACTIVE" position (see paragraph 5.9 and ZEN-Xi instructions for use).
- Once picked up, all the instruments are operated with the foot control (see paragraph 5.2.).

#### Simultaneous use of the instruments.

An interlocking device ensures that the instruments are not used simultaneously. The first extracted instrument is ready to be used while those extracted later are disabled by the interlocking device. This interlocking device allows the drill to be changed in one instrument while another is used on the patient.

#### Positioning the dentist's board.

turned on.

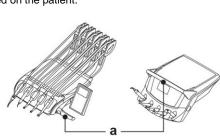
**a** Handle to adjust the height of the board and/or position it horizontally.



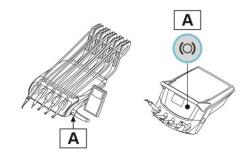
Α

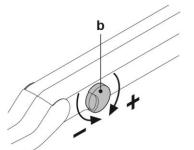
CRUSHING HAZARD Do not grasp the arm junctions during dentist's board movements.

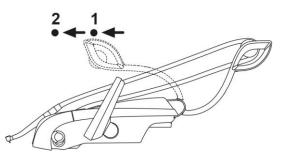
The release button is only active when the dental unit is











#### Pantograph arm with manual brake adjustment

Models with pantograph arm with pneumatic brake.

Board pantograph arm brake release button.

Balancing of the pantograph arm is determined at the time of installation. Any future adjustments can be made using the knob (**b**) on the pantograph arm.

Clockwise rotation: to increase clutch resistance of the pantograph arm. Counter-clockwise rotation: to decrease clutch resistance of the pantograph arm.

#### Instrument recall arm lock device (only version with upper recovery of hoses).

The arm can be locked in the instrument extracted position, by taking it at 2/3 from the limit stop (1).

To go back to the original condition, move the arm to the end of its travel (2).



#### Tray holder.

- f Stainless steel tray holder that can be separated from its support.
- V Silicone protection that can be sterilized in an autoclave at up to 135°C.



Maximum permitted load on the tray holder: 2 kg distributed.

Console unit position reversal (with reversible console, only).

Before carrying out this operation, turn the dental unit off. NEVER REMOVE THE CONSOLE FROM BOARD IF DENTAL UNIT IS ON.

To reverse console unit position on dentist's board, proceed as follows:

- Remove the console unit after having loosened the relevant ring nut (g) by turning it counter-clockwise.
- Remove the click-on cap (s) protecting the quick coupling on the left-hand side, and insert it inside the one on the right-hand side.
- Turn console unit supporting arm by 180°.
- Fit the console unit inside the quick coupling on left-hand side.
- To identify the correct positioning of the console unit, push arm fully down inside support and, at the same time screw ring nut by approx. 1/3 of a turn until it locks in place, but without forcing it.

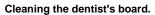


To avoid that dentist's board can escape on the other side, turn it by approx. 90° compared to its supporting arm position (see figure) before starting its positioning.

• Now dental unit can be turned on again.



During console cleaning operations, do not exert too much pressure on control panel to avoid putting stress on to the connection.

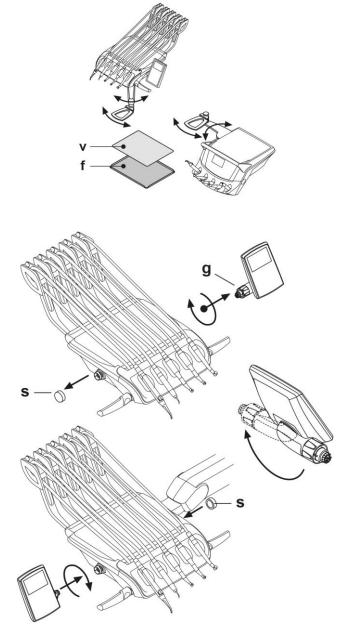


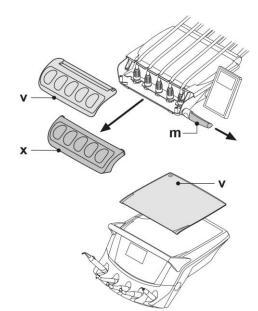
Clean the dentist's board using a suitable product (see paragraph 1.4).

- Removable instrument holder; just slide it out of its seat to remove it.
   Board handle that can be removed and sterilized in an autoclave at up to 121°C.
  - To remove the handle, first press the special locking buttons.
- V Silicone protection that can be sterilized in an autoclave at up to 135°C.



Perform cleaning and disinfection operations after each patient.





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#### SKEMA 5 SURGICAL SINGLE CART

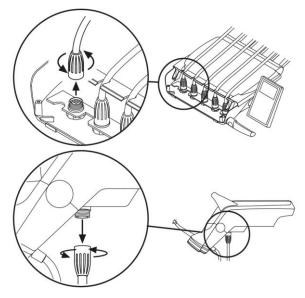


#### Removable instrument hoses.

Clean and sanitise the external surface of the instrument hose using a suitable product (see paragraph 1.4).

Instrument hoses are NOT designed for sterilization in autoclave or by being cold soaked in solution.

Boards, version with Upper Recovery: to remove hoses, first remove instrument holder (**x**).





Before removing instrument hoses, turn dental unit off.

- After having turned dental unit off, drain syringe ducts by pressing the relevant air and water buttons directly on bowl until all spray water has flowed out.
- TURBINE, MICROMOTOR and SCALER instrument hoses contain water; it is therefore recommended to remove the hose by keeping the handpiece side end on the bowl.
- When refitting a hose, make sure that electric contacts are dry and that the plastic ring nut is well tightened.
- Each hose must be refitted only and exclusively inside the corresponding instrument holder.





#### 5.1. DENTIST'S CONTROL CONSOLE

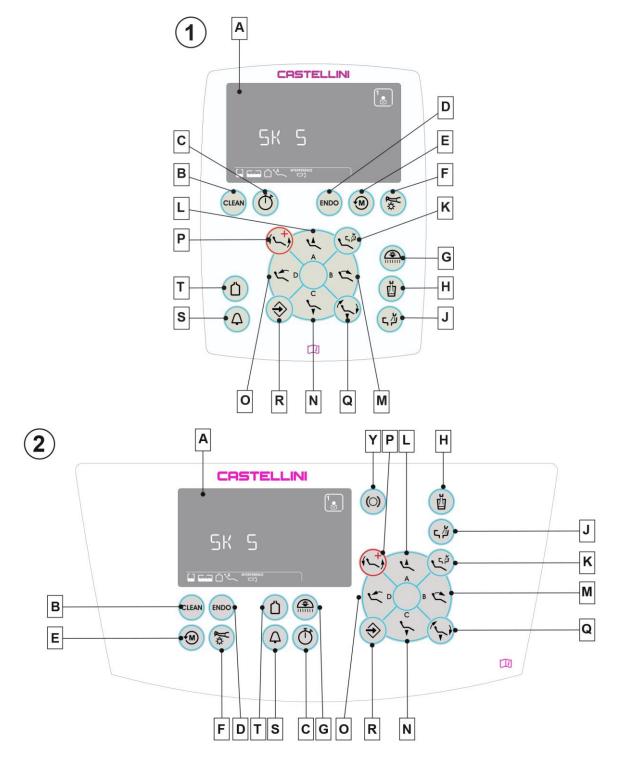
The console consists of a control panel and a DISPLAY of the LCD Touch type (A).

Upon turning on, the dental unit runs a short self-diagnosis cycle ending when the MAIN SCREEN appears on the DISPLAY showing the machine model, the name of the last set operator and the active warning icons.

1 Console with LCD Touch DISPLAY.

It allows viewing the machine's operating steps and setting some parameters using touch keys.

2 Console with LCD Touch DISPLAY (dental units in CP versions). It allows viewing the machine's operating steps and setting some parameters using touch keys.





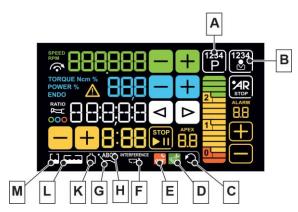


#### **Description of CONSOLE buttons:**

00001			
В	Button lock (pressed and held for at least 5 sec. for Clean function).	L	Button pressed shortly: recall stored position "A". Button pressed and held: seat up.
С	Stopwatch (see paragraph 5.1.1.2.).	Μ	Button pressed shortly: recall stored position "B". Button pressed and held: backrest up.
D	Operating mode selection. (Micromotor and Scaler).	Ν	Short press: recall stored position "C". Long press: seat down.
Е	Reversing micromotor drill rotation direction.	0	Button pressed shortly: Recall stored position "D". Button pressed and held: backrest down.
F	Fibre optics on/off.	Ρ	Emergency position recall.
G	Operating light On/Off.	Q	Dental chair reset position (patient entry/exit).
н	Water-to-cup delivery.	R	Enabling dental chair position storage.
J	Water-to-bowl delivery.	S	Assistant's call.
Κ	Rinse position recall.	т	S.S.S. system enabling/disabling (if system is installed).

#### Warning icons.

The display shows a series of icons giving information on the dental unit operation.



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#### Description of the warning icons:

- A Active work programme.
- **B** Active operator.
- **C** Reverse micromotor rotation.
- **D** Instrument spray active.
- **E** Instrument spray NOT active.
- **F** Bowl inside interference area.

#### Standby condition.

After about 10 minutes of inactivity, the dental unit goes into standby mode. Standard operating conditions will be resumed as soon as any operation is carried out.

#### Error / warning messages.

During the different operating steps, the system could detect some malfunctions/faults of the dental unit.

In this case, two types of notices can be displayed on the console DISPLAY: warning messages (W xxx) and error messages (E xxx) (see paragraph 10).

If the malfunction/fault is not dangerous, the dental unit continues working. The message can be turned off by pressing any button on the console.



Dental chair position set manually.

Independent water supply on.

Disinfectant fluid tank in reserve.

Dental chair stored position "A", "B", "C" or "D".

Independent water supply tank in reserve.

#### Board brake release button (models with hanging hoses).

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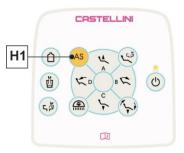


#### 5.1.1. MAIN SETTINGS

#### 5.1.1.1. HYGIENE CYCLE SETTING

- Press button (H1) on the assistant's board to open the HYGIENE CYCLE SETTING menu:
- **H1** Hygiene cycle selection.

Button pressed shortly: FLUSHING cycles. Button pressed and held: AUTOSTERIL cycle.



#### 5.1.1.1.1.QUICK FLUSHING CYCLE SETTING

- We recommend carrying out this operation after seeing each patient.
  - The cycle time is about 20 seconds

#### Performing the cycle.

- Press button (H1) on the assistant's board to select the FLUSHING cycle.
- · Press the "-" touch button to select the QUICK FLUSHING cycle.
  - When independent water supply is used for flushing, submenu will NOT be available if level is in reserve. (see paragraph 7.2).
    - The cycle time is about 20 seconds.
- Extract the instruments to be treated (the selected instruments will be highlighted on the LCD Touch DISPLAY).
- Press the button (T) to activate/deactivate independent water supply (with S.S.S. system, only).
- Press button  $(\ensuremath{\textbf{B1}})$  to select/deselect the flushing of cup duct.

The selection of the cup is indicated on the display by the icon (**b**).

• Press the touch button (A) to start the QUICK FLUSHING cycle (see paragraph 7.6.).

#### 5.1.1.1.2.LONG FLUSHING CYCLE SETTING

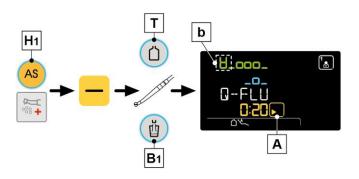
We recommend performing this operation at the beginning of each working day.

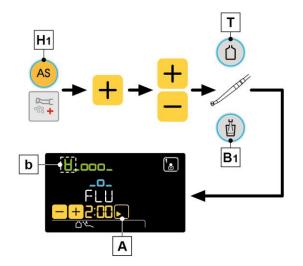
#### Performing the cycle.

- Press button  $(\mbox{H1})$  on the assistant's board to select the FLUSHING cycle.
- Press the "+" touch button to select the LONG FLUSHING cycle.

When independent water supply is used for flushing, submenu will NOT be available if level is in reserve. (see paragraph 7.2).

- Set cycle time by using buttons "+" or "-".
  - Time setting ranges from a min. of 1 minute to a max. of 10 minutes. When using the distilled water tank, do not set a time higher than 2 minutes.
- Extract the instruments to be treated (the selected instruments will be highlighted on the LCD Touch DISPLAY).
- Press the button (T) to activate/deactivate independent water supply (with S.S.S. system, only).
- Press button (B1) to select/deselect the flushing of cup duct.
- The selection of the cup is indicated on the display by the icon (**b**).
- Press the touch button (A) to start the LONG FLUSHING cycle (see paragraph 7.5.).









#### 5.1.1.1.3. AUTOSTERIL DISINFECTION CYCLE SETTING

We recommend carrying out this operation at the end of each working day.

#### Performing the cycle.

• Press and hold the button (H1) on the assistant's board to select the AUTOSTERIL cycle.



- Cycle will not start if:
   disinfectant tank is in reserve (see paragraph 7.4.);
  - an instrument is extracted;
- there is an error in the M.W.B. system
- Set cycle time by using buttons "+" or "-".

Time setting ranges from a min. of 5 minutes to a max. of 10 minutes.

Disinfection according to the manufacturer's specifications is guaranteed by the 10-minute cycle, a shorter time may not guarantee the same levels of disinfection.

- Extract the instruments to be treated (the selected instruments will be highlighted on the LCD Touch DISPLAY).
- Press button (B1) to select/deselect the flushing of cup duct.

The selection of the cup is indicated on the display by the icon (b).

• Press the touch button (A) to start the AUTOSTERIL cycle (see paragraph 7.4.).

#### 5.1.1.2. STOPWATCH

• Press the button (C) to access the STOPWATCH function:

#### Stopwatch setting

The countdown can be set from a minimum of 10 seconds to a maximum of 10 minutes.

- · Set the time using the buttons "+" and "-".
- Press the "PLAY" button (A) to start the countdown.
- Press the "PAUSE" button (A1) to stop the countdown.
- At this point, you can press the "PLAY" button (A) to restart the countdown or button "-" (U) to stop the countdown and return to the time setting stage.

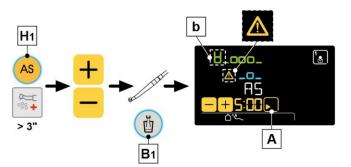
Once the set time has elapsed, the dental unit emits an intermittent sound.

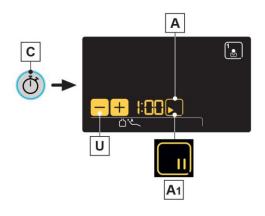
 Press the "-" button (U) to stop the sound and select the last time value set in the timer.

#### 5.1.2. OPERATOR SELECTION

• Press the button (B) repeatedly to set the desired operator.

There are 4 selectable operators.











#### DENTAL CHAIR "RINSING POSITION" AND "RESET POSITION" PROGRAMMING 5.1.3.

This setting is specific for each single operator.

Proceed as follows:

- · Adjust the dental chair into the desired position with the manual movement buttons (L, M, N, O).
- Hold button (R) for at least 2 seconds to activate save mode.
- Press the buttons "Reset Position" (patient entry/exit) (M) or "Rinse Position" (K) briefly to assign the position to the button.



The "Rinse Position" button (K) moves backrest and seat to rinse position.

When button (K) is pressed again, backrest and seat will go back to the previous position.



#### **CRUSHING HAZARD**

The positions already stored ensure a safety distance between dental chair and floor. Do not store lower dental chair positions, and in any case pay attention to the risk of crushing.

#### PROGRAMMING THE DENTAL CHAIR POSITIONS A, B, C and D 5.1.4.



This setting is specific for each single operator.

Proceed as follows:

- · Adjust the dental chair into the desired position with the manual movement buttons (L, M, N, O).
- Hold button (R) for at least 2 seconds to activate save mode.
  - (A) The position of the dentist's board is not stored in dental chair programmes.
- Press the button (L), (M), (N) or (O) briefly to assign the position to the button.

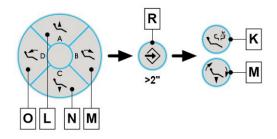
The appearance of icon (A) relating to the selected programme on the LCD Touch DISPLAY will confirm that it has been saved.

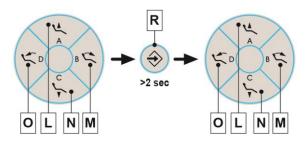


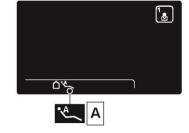
#### selected programme. **CRUSHING HAZARD**

The positions already stored ensure a safety distance between dental chair and floor. Do not store lower dental chair positions, and in any case pay attention to the risk of crushing.

To recall a programmed position, shortly press the button of the









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#### 5.1.5. EMERGENCY BUTTON

The button  $(\mathbf{P})$  can be used in the event of an emergency to move the patient into the Trendelenburg position.

The Trendelenburg position is already set and cannot be changed.

#### 5.1.6. TURNING ON THE OPERATING LIGHT

Press the button (G) to turn on/off the operating light.



VENUS PLUS, VENUS PLUS -L version, VENUS PLUS MCT version lights only.

- Press and hold button ( ${\bf G})$  (at least 2 seconds).

If the light is off, it will be turned on before accessing the adjustment menu.

• Adjust beam brightness by pressing "increase" or "decrease" buttons.

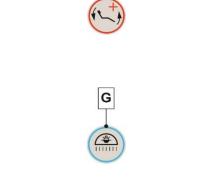
Value setting range: 1 to 10.

• Press button (G) again to confirm the selected brightness.

#### 5.1.7. CONSOLE CONTROL PANEL LOCKING BUTTON

Press this button to enable/disable the control panel and the LCD Touch DISPLAY (if any) in order to easily carry out console cleaning operations.

- Press button (**B**) for at least 5 seconds to disable the control panel and the LCD Touch DISPLAY (if any).
- Press again button (**B**) for at least 5 seconds to re-enable the control panel and the LCD Touch DISPLAY (if any).



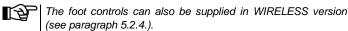


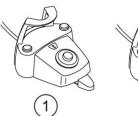


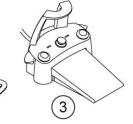


#### 5.2. FOOT CONTROL

- Three types of foot controls are available:
- 1 Multifunction (see paragraph 5.2.1.).
- **2** Pressure-operated (see paragraph 5.2.2).
- **3** Power pedal (see paragraph 5.2.3).







#### 5.2.1. "MULTIFUNCTION" FOOT CONTROL

#### Description of the parts.

- 1 Handle.
- 2 Control lever.
- **3** Dental chair movement control.
- 4 Chip-air/Patient rinse position recall control.
- 5 Water Clean System/Automatic dental chair return control.
- 6 LED (not active).
- 7 Battery charge LED (wireless version only).

#### Control lever (2).

With instrument removed

- · Shifting the pedal (2) adjusts speed/power of the instrument:
  - rightward: activation with spray.
  - leftward: activation with no spray.
    - The control lever adjusts the speed/power of the instrument from the minimum to the maximum value set from the dentist's board.
      - At the end of work, air is automatically blown to eliminate any drops of liquid remaining in the spray ducts.

#### With instrument at rest

- · End-of-travel to the right: dental chair reset position recall.
- End-of-travel to the left: rinse position recall.



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If the lever is pushed again all the way to the left, the dental chair goes back to the work position.



These dental chair functions are activated by keeping the pedal at the end of the travel for at least 2 seconds.

When the foot control is pressed, all automatic dental chair movements are automatically blocked.

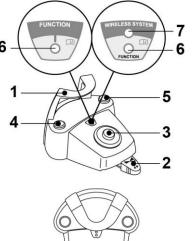
#### Joystick for dental chair movements (3).

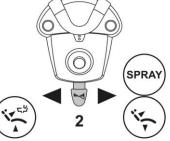
It controls the following movements:

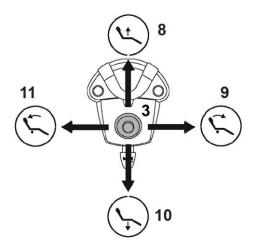
- 8 Dental chair seat up.
- 9 Dental chair backrest up.
- **10** Dental chair seat down.
- **11** Dental chair backrest down.

To stop movement, release the control joystick.

- All the buttons used to move the dental chair are inoperative when an instrument is removed and the foot control lever is actuated.
  - It is possible to edit the joystick operation once the instrument is extracted (see paragraph 5.1.1.7.).











#### Left-hand button operation (4).

#### With instrument removed

• Long press (at least 2 seconds): sends a jet of air to the instruments (Chip air); the jet stops when the button is released.

#### With instruments at rest

• Long press: calls up the patient rinse position.

Pressing the button a second time returns dental chair back into working position.

#### Right-hand button operation (5).

#### With instrument removed

• Long press (at least 2 seconds): sends a jet of water to the instruments (Turbine, Micromotor and Scaler) (Water Clean System function); the jet stops when the button is released.

#### With instruments at rest

Long press (at least 2 seconds): calls up the dental chair reset position.

#### WIRELESS version.

This foot control can also be supplied in wireless version (see Paragraph 5.2.4).

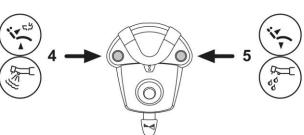
#### Protection against liquid penetration.

The foot control is protected against liquid penetration. Degree of protection: IPX1.

#### Cleaning.

Clean the foot control using a suitable product (see Paragraph 1.5).

If the foot control slips on the floor, remove any dust from the slip-proof rubber found under the base with a dry cloth.







#### "PUSH-PEDAL" FOOT CONTROL 5.2.2.

#### Description of the parts.

- 1 Handle.
- 2 Control lever.
- 3 Dental chair movement control.
- Chip-air/Patient rinse position recall control.
- Water Clean System/Automatic dental chair return control.
- 4 5 6 Spray operation LED.
- 7 Battery charge LED (wireless version only).

#### Control lever (2).

 $[\mathcal{A}]$ 

With instrument removed

- Pushing the pedal (2) for a long time starts the instrument.
- · Shifting the pedal (2) adjusts speed/power of the instrument:
  - to the right: increase;
  - to the left: decrease.

The control lever adjusts the speed/power of the instrument from the minimum to the maximum value set from the dentist's board.

Release the pedal (2) to stop instrument operation.

With the spray active, at the end of the operation a blast of air is automatically activated to remove any residual drops of liquid in the spray ducts.



- When the LED (6) is on, it indicates operation WITH spray.
- When the pedal (2) is pressed, all automatic dental chair movements are automatically blocked.

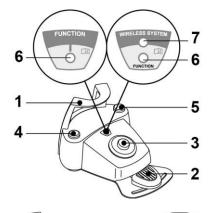
#### Joystick for dental chair movements (3).

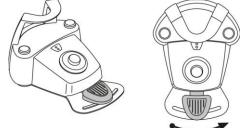
It controls the following movements:

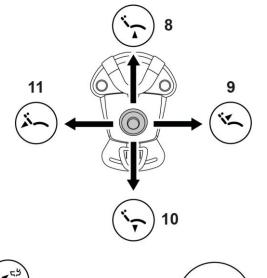
- 8 Dental chair seat up.
- 9 Dental chair backrest up.
- 10 Dental chair seat down.
- 11 Dental chair backrest down.

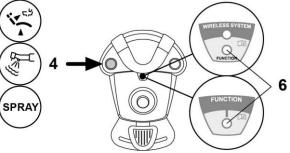
To stop movement, release the control.

- LP All the buttons used to move the dental chair are inoperative • when an instrument is removed and the foot control lever is actuated.
  - It is possible to edit the joystick operation once the instrument is extracted (see paragraph 5.1.1.7.).









#### Left-hand button (4).

With instrument removed

· Long press (at least 2 seconds): sends a jet of air to the instruments (Chip air); the jet stops when the button is released.

When the LED (6) is on, it indicates operation WITH

· Short press: enables/disables the spray function.



spray.

A short sound warns of the switching.

#### With instruments at rest

· Long press (at least 2 seconds): calls up the patient rinse position.

[A] Pressing the button a second time returns dental chair back into working position.



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#### SKEMA 5 SURGICAL SINGLE CART



#### Right-hand button (5).

#### With instrument removed

Long press (at least 2 seconds): sends a jet of water to the instruments (Turbine, Micromotor and Scaler) (Water Clean System function); the jet stops when the button is released.
Short press: enables/disables the spray function.



A short sound warns of the switching. When the LED (6) is on, it indicates operation WITH spray.

#### With instruments at rest

· Long press (at least 2 seconds): calls up the reset position.

#### WIRELESS version.

This foot control can also be supplied in WIRELESS version (see "WIRELESS foot control" paragraph).

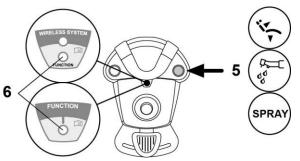
#### Protection against liquid penetration.

The foot control is protected against liquid penetration. Degree of protection: IPX1.

#### Cleaning.

Clean the foot control using a suitable product (see Paragraph 1.5).

If the foot control slips on the floor, remove any dust from the slip-proof rubber found under the base with a moist cloth.







#### "POWER PEDAL" FOOT CONTROL 5.2.3.

#### Description of the parts.

- 1 Handle.
- 2 Foot control.
- 3 Dental chair movement control.
- 4 Chip-air control or activation/deactivation of instrument spray function.
- 5 Water Clean System control or activation/deactivation of instrument spray function.
- 6 Spray operation LED.
- 7 Battery charge LED (wireless version only).
- 8 Automatic dental chair return or programme "B" recall activation.
- 9 Patient rinse position or programme "A" recall activation.

#### Foot control (2).

#### With instrument removed

- Pushing the pedal (2) for a long time starts the instrument.
- You can adjust the speed/power by modulating the pressure on the pedal.



The foot control adjusts the speed/power of the instrument from the minimum to maximum value set from the dentist's board.

• Release the pedal (2) to stop instrument operation.



With the spray active, at the end of the operation a blast of air is automatically activated to remove any residual drops of liquid in the spray ducts.

With instruments at rest

When the foot control (2) is pressed, all automatic dental chair movements are automatically blocked.

#### Joystick for dental chair movements (3).

- It controls the following movements:
- 9 Dental chair seat up.
- 10 Dental chair backrest up.
- 11 Dental chair seat down.
- 12 Dental chair backrest down.

To stop movement, release the control.

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All dental chair movements are blocked when an instrument

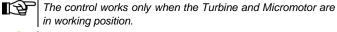
- is being used or the AUTOSTERIL system is running.
- It is possible to edit the joystick operation once the instrument is extracted (see paragraph 5.1.1.7.).

#### Left-hand button (4).

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With instrument removed

- Short press: enables/disables the spray function.
- · Long press (at least 2 seconds): sends a jet of air to the instruments (Chip air); the jet stops when the button is released.





A short sound warns of the switching.

When the LED (6) is on, it indicates operation WITH spray.

#### Right-hand button (5).

With instrument removed

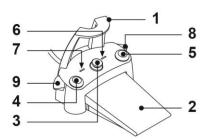
- Long press (at least 2 seconds): sends a jet of water to the instruments (Turbine, Micromotor and Scaler) (Water Clean System function); the jet stops when the button is released.
- Short press: enables/disables the spray function.

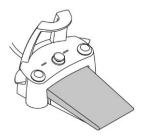


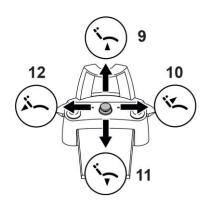
The control works only when the Turbine and Micromotor are in working position.

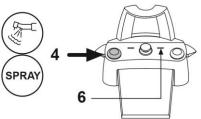
A short sound warns of the switching.

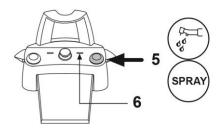
When the LED (6) is on, it indicates operation WITH spray.

















#### Right-hand lever (8).



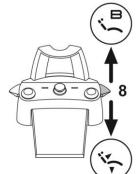
With instruments at rest, the lever can control all dental chair movements; with instruments removed, only down controls are active.

Pressure:

· recalls dental chair reset position (patient entry/exit).

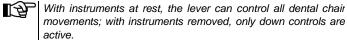
Lifted:

• recalls the stored dental chair position "B".





#### Left-hand lever (9).



Pressure:

· recalls patient rinse position.



When the lever is actuated the second time, the dental chair reaches its work position.

Lifted:

• recalls the stored dental chair position "A".

#### Protection against liquid penetration.

The foot control is protected against liquid penetration. Degree of protection: IPX1.

#### Cleaning.

Clean the foot control using a suitable product (see Paragraph 1.5).

If the foot control slips on the floor, remove any dust from the slip-proof rubber found under the base with a moist cloth.





#### 5.2.4. WIRELESS FOOT CONTROL

Warnings for use.

- Avoid keeping the WIRELESS foot control in proximity of other RF sources, such as wireless LAN cards, other radio devices, home RF devices, microwave ovens. Recommended distance: at least 3 metres from any electronic device, especially radio-frequency emitting ones.
  - It is recommended NOT to use it in proximity of life support equipment (e.g. pacemakers or heart stimulators) and hearing aids.
  - Before using any electronic device in health facilities, always check that it is compatible with the other equipment present.
- Exclusively use the dental unit to charge the battery of the WIRELESS foot control.
- The internal battery may only be replaced by a qualified technician.

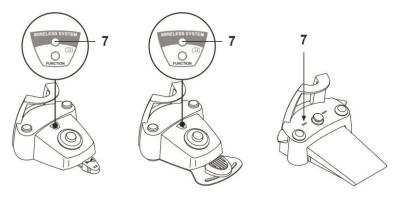
#### Warnings for first use.

It is advisable to fully charge the foot control battery before using it for the first time.

#### WIRELESS foot control operation.

The WIRELESS foot control operates exactly in the same way as the wired version, therefore refer to the paragraphs above paying WARNING to the specific model used.

In addition, the WIRELESS foot control has a specific LED (7) that indicates the battery charge and the communication status with the dental unit.



#### LED indications (7).

The colour of the LED indicates the battery charge, while the type of flashing indicates the communication status with the dental unit.

#### Battery charge:

COLOUR	DESCRIPTION ( CABLE DISCONNECTED )	DESCRIPTION ( CABLE CONNECTED )
GREEN	Battery charge (>75%)	Battery charged
ORANGE	Battery charge (<50%)	Battery charging
RED	Battery needs charging (<25%)	Battery charge error
Off	Battery flat	Dental unit off or foot control fault

#### Communication status:

BLINKING	DESCRIPTION
Slow	Connection active in wireless mode
Fast	Connection active with charging cable inserted
Double	Connection search
On fixed	Communication error

#### Battery characteristics.

The WIRELESS foot control is equipped with a rechargeable battery.

The battery life is approximately 2 months (estimating 8 hours of consecutive daily operation) with the battery fully charged and fully efficient. The battery efficiency reduces over time. It is estimated that the efficiency is reduced to 60% after 500 complete recharging cycles. Also in this condition, the battery should last about 1 month.



When the battery efficiency is so reduced as to be deemed unsatisfactory to support the daily usage requirements, have it replaced by a qualified technician.



Do not attempt to replace the battery yourself.

#### Limited battery warranty.

The battery in the foot control is covered by a 6-month warranty from the date of installation.







#### Recharging the battery.

When the batteries in the WIRELESS foot control need to be recharged. Proceed as follows:

- Open the door (1) on the back of the pedal and connect the charging cable (2).
- Open the door (3) at the base of the dental chair and connect the other end of the charging cable (2).

At this point, the foot control is in the battery charging phase (battery charging warning LED on) even though remaining fully functional.

The battery is fully recharged in about 6 hours.



Exclusively use the dental unit to charge the battery of the WIRELESS foot control.

#### Natural battery discharge.

Should the battery not be used for long periods of time, it may slowly discharge all the same.

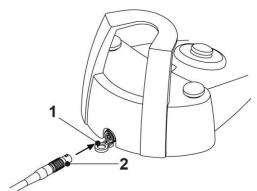
If unused for long periods of time, it is advisable to always fully charge the battery before use.

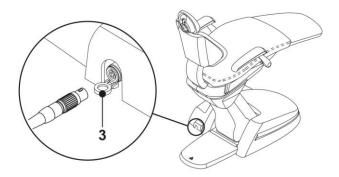
#### Maintenance and disposal

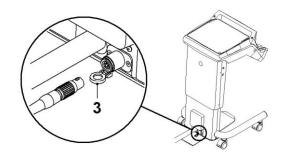
The wireless foot control does not contain parts that can be repaired directly by the user.

In the event of a malfunction, do not attempt to carry out maintenance operations, but directly contact the manufacturer or its local distributor at the numbers indicated in the warranty certificate.

At the end of its lifetime, the battery must be replaced by a specialised technician at a Service centre.











#### 5.3. SYRINGE

#### Description of the instrument.

- а Spout.
- b Handle.
- С Syringe release button.
- d Air button.
- е Water button.
- f Hot/cold selector (only for 6-function syringes).
- Hot/cold indicator LED (only for 6-function syringes). g



The instrument is supplied non-sterile. It is recommended to use disposable infection control sheaths and spouts.

#### Syringe models and operating times:

- syringe 3F: continuous operation,
- syringe 6F: 5 sec. operation, 10 sec. rest,
- syringe 6F (with fibre optics): 5 sec. operation, 10 sec. rest.

#### Use.

· Place the instrument in its work position.

Instrument activation is highlighted by the relevant managing L B screen appearing on the DISPLAY.

Button (e) = water; Button  $(\mathbf{d}) = \operatorname{air};$ 

Button  $(\mathbf{e} + \mathbf{d}) = \text{spray}.$ 

6F syringe, operation with hot water, air and spray: turn the selector switch (f) anti-clockwise (LED g on).

6F syringe, operation with cold water, air and spray: turn the selector switch (f) clockwise (LED g off).

#### Removing the handle.

The spout (a) is screwed onto the handle (b).

Press the locking button (c) to take the handle off the syringe casing.



Carry out this operation with heater off.

#### Removable hose.

The instrument features a removable hose to make cleaning operations easier (see paragraph 5.).

#### Cleaning.

disposable Use soft paper towel dampened with detergents/disinfectants.



Do not soak the syringe in liquid disinfectants or detergents.

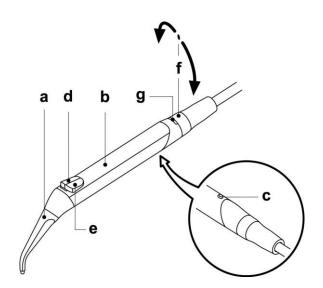
Inadvisable products: abrasive products and/or products containing acetone, chlorine and sodium hypochlorite.

#### Sterilization.

Syringe handle and spout: steam autoclave at up to 135°C following the instructions for use of the device.



Bag before sterilizing.







### 5.4. TURBINE

Connecting the handpiece and changing the drill.

Refer to the specific instructions provided with the handpiece.

# Use.

The instrument is supplied NON-sterile. Carefully read the operating instructions supplied with the instrument before attempting to sterilize.

Operating times: work 5 min., rest 5 min. f

- Cock that adjusts the amount of spray water
- е Cock that adjusts the amount of air spray for all the instruments.
- g Turbine return air filter.
- · Place the instrument in its work position.

Instrument activation is highlighted by the relevant managing screen appearing on the DISPLAY.

• Use the foot control lever to start the instrument (see paragraph 5.2.).

The turbine hose can also be used to connect the air micromotors equipped with 4-way connectors and conforming with standard ISO 13294 and/or other air-operated instruments with the same 4-way connector.

### Adjusting the drill's rotation speed:

· Set the percentage of drill's maximum rotation speed by pressing "increase" or "decrease" buttons.

The data set are automatically saved.



- · Place the instrument in its work position.
- Press the button to turn Fibre Optics on/off (F).
  - The Fibre Optics switch off when the instrument is not used 5 for 1 minute (rheostat lever disabled).

### Fibre optic brightness adjustment.

- · Place the instrument in its work position.
- To adjust fibre optic brightness, press the button (F) (for at least 2 seconds).
- · Adjust beam brightness by pressing "increase" or "decrease" buttons.

Value setting range: 1 to 16.

• To confirm set brightness, press the button (F) (for at least 2 seconds).

### Activation/deactivation of independent water supply.

See paragraph 7.2.

### Removable hose.

The instrument features a removable hose to make cleaning operations easier (see paragraph 5.).

### Cleaning and maintenance.

Refer to the specific instructions provided with the instrument. It is recommended to use Daily Oil Plus (CEFLA s.c.) for lubrication.

### Sterilization.

Steam autoclave up to 135°C following the instructions for the use of the device.



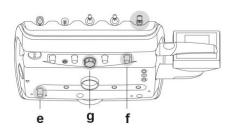
Carefully read the operating instructions supplied with the instrument before attempting to sterilize.

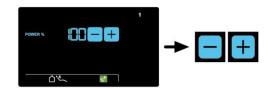
### Safety standards.

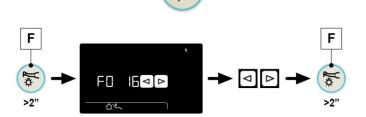
The turbine must never be started without attaching the drill or fake drill.

The drill release button must not be pressed during operation!

- Friction between the button and micromotor rotor overheats the head and may cause burns.
- The patient's internal tissues (tongue, cheeks, lips, etc.) must be protected against contact with the button by using suitable instruments (mirrors, etc.).
- The drills and various instruments attached to the handpieces must comply with Biocompatibility Standard ISO 10993.











When the peristaltic pump is enabled, the other sources of liquid supply are disabled

### 5.4.1. TURBINE (ORTHO models)



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The instrument is supplied NON-sterile. Carefully read the operating instructions supplied with the instrument before attempting to sterilize.

Operating times: work 5 min., rest 5 min.

- f Cock that adjusts the amount of spray water
- **g** Turbine return air filter.

It is not possible to adjust the amount of spray air.

· Place the instrument in its work position.

- Instrument activation is highlighted by the relevant managing screen appearing on the display.
- Use the foot control lever to start the instrument (see paragraph 5.2.).
- The turbine hose can also be used to connect the air micromotors equipped with 4-way connectors and conforming with standard ISO 13294 and/or other air-operated instruments with the same 4-way connector.

### Adjusting the drill's rotation speed:

• Set the percentage of drill's maximum rotation speed by pressing "increase" or "decrease" buttons.

The data set are automatically saved.

### Turning on the fiber optics.

Place the instrument in its work position.

Fiber optics (if provided) are always on.

### Activation/deactivation of independent water supply.

• Press button (T) to activate/deactivate the independent water supply:

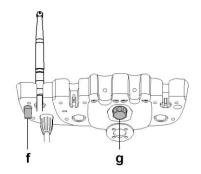
Independent water supply active status is highlighted by icon (A) appearing on the console display.

### Cleaning and maintenance.

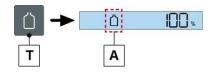
See paragraph 5.4.

### Safety standards.

See paragraph 5.4.











### 5.5. ELECTRIC MICROMOTOR

### Coupling the handpieces and changing the drill.

Refer to the specific instructions provided with the micromotor and various handpieces.

### Use.



### The instrument is supplied NON-sterile.

Carefully read the operating instructions supplied with the instrument before attempting to sterilize.

Operating times: work 5 min., rest 5 min.

- **e** Cock that adjusts the amount of air spray for all the instruments.
- **f** Cock that adjusts the amount of spray water.
- · Place the instrument in its work position.

Instrument activation is highlighted by the relevant managing screen appearing on the DISPLAY.

• Use the foot control lever to start the instrument (see paragraph 5.2).

### Adjusting the drill's rotation speed.

• Set the percentage of drill's maximum rotation speed by pressing "increase" or "decrease" buttons.

The data set are automatically saved.

### Turning on the fibre optics.

- Place the instrument in its work position.
- Press the button to turn Fiber Optics on/off (F).

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30 seconds (rheostat lever disabled).

### Fibre optic brightness adjustment.

· Place the instrument in its work position.

- To adjust fibre optic brightness, press the button  $({\bf F})$  (for at least 2 seconds).

The Fibre Optics switch off when the instrument is not used for

Adjust beam brightness by pressing "increase" or "decrease" buttons.

Value setting range: 1 to 16.

• To confirm set brightness, press the button (F) (for at least 2 seconds).

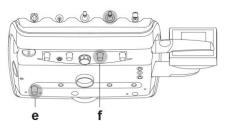
### Reversing micromotor drill rotation direction.

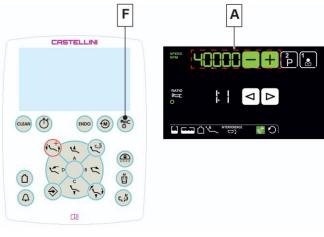
• Select micromotor drill rotation direction by pressing button (E): The reversed rotation direction is signalled by a sound (3 BEEPS) and by icon (B) appearance on the DISPLAY.



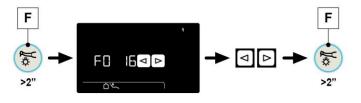
As soon as the micromotor is extracted, in addition to the icon (B), a sound (3 BEEPS) warns the operator if the direction of rotation is reversed.

When the rheostat lever is on, the micromotor drill cannot reverse its direction of rotation.















### Operating mode selection.

Micromotor working programme selection.

It is possible to set 4 micromotor working programmes. Each working programme saves the following data:

The data set are automatically saved.

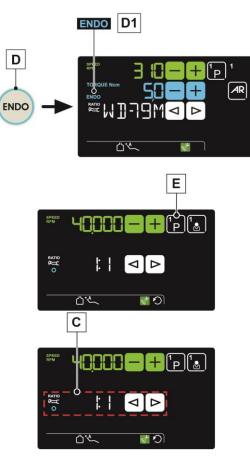
Select the desired reduction ratio using buttons (**C**).

• Press button (E) repeatedly to set the desired working programme.

If supported by the micromotor, select RESTORATIVE (see paragraph 5.5.1.) or ENDODONTIC (see paragraph 5.5.2.) operating modes using button (**D**).



- The activation of ENDODONTIC mode is signalled on the display through icon (D1).
  - Machines equipped with a basic motor only provide the RESTORATIVE operating mode.



### Removable hose.

· Operating mode.

Maximum rotation speed. Handpiece reduction ratio.

Reduction ratio selection.

The micromotor features a removable hose to make cleaning operations easier (see paragraph 5.).

### Cleaning and maintenance.

Refer to the specific instructions provided with the instrument. It is recommended to use Daily Oil Plus (CEFLA s.c.) for lubrication.



Do not soak the instrument in disinfectant fluids or detergents.

Inadvisable products: abrasive products and/or products containing acetone, chlorine and sodium hypochlorite.

### Sterilization.

Instrument handpiece only: see paragraph 1.6.





Carefully read the operating instructions supplied with the instrument before attempting to sterilize.

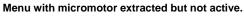
# Safety standards

- The instrument is supplied NOT sterile and must be sterilized before use.
- Carefully read the operating instructions supplied with the instrument before attempting to sterilize.
- Never put the contra angle on the micromotor while it is running.
- The drill release button must not be pressed during operation!
- Friction between the button and micromotor rotor overheats the head and may cause burns.
- The patient's internal tissues (tongue, cheeks, lips, etc.) must be protected against contact with the button by using suitable instruments (mirrors, etc.).
- The drills and various instruments attached to the handpieces must comply with Biocompatibility Standard ISO 10993.

### 5.5.1. RESTORATIVE OPERATING MODE

### Characteristics.

- Speed range: 100 to 40,000 Rpm (1:1 handpiece).
- Reduction ratio selection.
- Display of the instantaneous maximum speed.
- · Direct selection of the set working programmes.



Menu with micromotor extracted and active.

The following functions can be changed:

or "decrease" buttons (E).

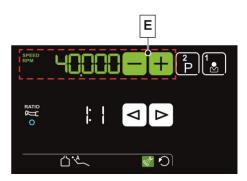
All icon buttons are active and all available functions can be edited (see paragraph 5.5.).

· Adjust the maximum rotation speed of the drill by using the "increase"



Any edited setting or value will be automatically saved inside the selected working programme (e.g. P1).





### ENDODONTIC OPERATING MODE 5.5.2.

### Characteristics.

- · speed value adjustable from 100 to 1200 Rpm with value always referring to the drill, based on the set reduction ratio,
- torque adjustable from 0.1 to 5.0 Ncm,
- · reduction ratio selection with display of certified contra angles,
- · drill rotation set at maximum torque.
- · display of the instantaneous maximum speed.
- · direct selection of the set working programmes.

Disclaimer: The trademarks of the endodontic drills are not the 5 property of CEFLA s.c. or any of its affiliated companies.

### Menu with micromotor extracted but not active.

In addition to the common buttons, the following buttons are also available in ENDODONTIC mode:

- В Torque value adjustment
- S Drill rotation at maximum torque.

### Torque value adjustment.

· Set the maximum torque value by using "increase" or "decrease" buttons (B).

The torque value is expressed in % or Ncm for certified reducers. The appearance of the symbol (Z) highlights a value reading tolerance of ±20%.

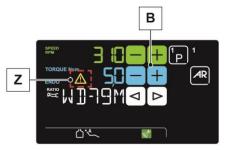
The data set are automatically saved.

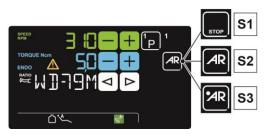
### Drill rotation at maximum torque.

Select the drill rotation mode when the set maximum torque is reached:

- S1 Rotation lock.
- S2 Stop normal rotation and reverse rotation.
- **S**3 Stop normal rotation, short reverse rotation and resumption of normal rotation.







### Certified contra angle pre-set list.

Display text	Ratio	Display torque	Torque tolerance to drill	Reference contra angles
				·





128:1	128:1	100%	<u> </u>	All makes	
120:1	120:1	100%	<u> </u>	All makes	
64:1	64:1	100%	<u> </u>	All makes	
40:1	40:1	100%	<u> </u>	All makes	
18:1	18:1	100%	<u> </u>	All makes	
16:1	16:1	5 Ncm	<u> </u>	All makes	
E16	16:1	5 Ncm	±10%	Goldspeed E16 <sup>®</sup>	
EVO E16	16:1	5 Ncm	±10%	Goldspeed EVO E16 <sup>®</sup>	
10:1	10:1	5 Ncm	<u> </u>	All makes	
ER10	10:1	5 Ncm	±10%	NSK ER10 <sup>®</sup>	
9.5:1	9.5:1	5 Ncm	<u> </u>	All makes	
K8.1:1	8.1:1	5 Ncm	±10%	KaVo MASTERmatic M07 L <sup>®</sup> + Testina L66B <sup>®</sup>	
S6:1	6:1	5 Ncm	±10%	Sirona Endo 6:1	
K5.4:1	5.4:1	5 Ncm	±10%	Kavo IntraC 0767 LHC®	
EVO E4	4:1	5 Ncm	±10%	Goldspeed EVO E4®	
4:1	4:1	5 Ncm	<u> </u>	All makes	
ER4	4:1	5 Ncm	±10%	NSK ER4 <sup>®</sup>	
K3:1	3:1	5 Ncm	±10%	KaVo MASTERmatic M07 L <sup>®</sup> + Testina L68B <sup>®</sup>	
K2.7:1	2.7:1	5 Ncm	±10%	Kavo LUX 7LP <sup>®</sup> Kavo IntraC 0768 LHC <sup>®</sup>	
WD-79M	2:1	5 Ncm	±10%	W&H WD-79M <sup>®</sup> W&H EB-79M <sup>®</sup>	
1:1	1:1	5 Ncm	±10%	All makes	

### Menu with micromotor extracted and active.

The following functions can be changed:

• adjust the maximum rotation speed of the drill using the "increase" or "decrease" buttons (E).





### **ELECTRIC MICROMOTOR (ORTHO models)** 5.5.3.

### Use.



### The instrument is supplied NON-sterile.

Carefully read the operating instructions supplied with the instrument before attempting to sterilize.

Operating times: work 5 min., rest 5 min.



Cock that adjusts the amount of spray water

It is not possible to adjust the amount of spray air.

• Place the instrument in its work position.

 $\mathbf{P}$  Instrument activation is highlighted by the relevant managing 1 screen appearing on the display.

• Use the foot control lever to start the instrument (see paragraph 5.2.).

### Adjusting the drill's rotation speed:

· Set the percentage of drill's maximum rotation speed by pressing "increase" or "decrease" buttons.

The data set are automatically saved.

### Turning on the fiber optics.

· Place the instrument in its work position.



Fiber optics (if provided) are always on.

### Activation/deactivation of independent water supply.

• Press button (T) to activate/deactivate the independent water supply:



Independent water supply active status is highlighted by icon (A) appearing on the console display.

### Reversing micromotor drill rotation direction.

· Select micromotor drill rotation direction by pressing button (E): The reversed rotation direction is signalled by a sound (3 BEEPS) and by icon (B) appearance on the DISPLAY.



 $[\mathcal{A}]$ 

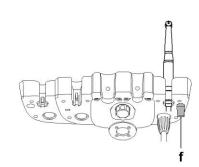
As soon as the micromotor is extracted, in addition to the icon (B), a sound (3 BEEPS) warns the operator if the direction of rotation is reversed.

When the rheostat lever is on, the micromotor drill cannot reverse its direction of rotation.

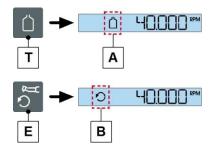
### Cleaning and maintenance.

See paragraph 5.5.

Safety standards. See paragraph 5.5.













### 5.6. SCALER

### Connecting the handpiece and insert.

Refer to the specific instructions provided with the handpiece.

Before attempting to connect the handpiece, make sure the contacts are perfectly dry. Blow air from the syringe, if necessary, to dry.

Make sure the threaded sections of the insert and handpiece are perfectly clean.

### Use.

Operating times: see operating instructions supplied with the handpiece.

f Cock that regulates the amount of cooling water (at the instrument).

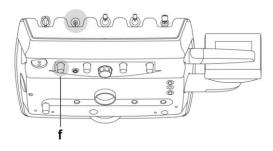
• Place the instrument in its work position.

Instrument activation is highlighted by the relevant managing screen appearing on the DISPLAY.

• Use the foot control lever to start the instrument (see paragraph 5.2.).



The instrument is supplied NON-sterile.





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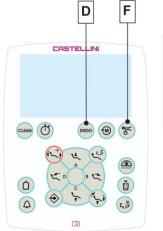


F

>2"

### Description of the buttons:

- Α Scaler working programme selection.
- В Increase the scaler's power output.
- С Decrease the scaler's power output.
- D Scaler operating mode selection. (NORMAL, ENDO or PARO).
- F Fibre optics on/off.





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### Turning on the fibre optics.

- · Place the instrument in its work position.
- Press the button to turn Fibre Optics on/off (F)



The Fibre Optics switch off when the turbine is not used for 30 seconds (rheostat lever disabled).

### Fibre optic brightness adjustment.

- · Place the instrument in its work position.
- To adjust fibre optic brightness, press the button (F) (for at least 2 seconds).
- Adjust beam brightness by pressing "increase" or "decrease" buttons.

Value setting range: 1 to 16.

• To confirm set brightness, press the button (F) (for at least 2 seconds).

### Scaler working programme selection.

The scaler has 3 different working programmes, identified with P1, P2 and P3, that can be selected cyclically.

Each working programme saves the following data:

- maximum power,
- · fibre optic on/off,
- type of delivered spray.

Touch the button (A) repeatedly to select the desired programme.

The variation is cyclical.

### Scaler operating mode selection

With instrument removed

- Select the scaler operating mode by touching the button (D) repeatedly, the following operating modes will be selected in sequence:
- D1 NORM (normal).
- **D2** ENDO (50% reduced power).
- D3 PARO (40% reduced power).

With the foot control lever activated, you cannot edit operating mode.

The data set are automatically saved.



FD



### Removable hose.

Scaler features a removable hose to make cleaning operations easier (see paragraph 5).

### Cleaning and maintenance.

Refer to the specific instructions provided with the instrument.



Do not soak the handpiece in disinfectant liquids or detergents.





Torque wrench, scaler bits and scaler handpiece: steam autoclave up to 135°C following the instructions for the use of the device

Carefully read the operating instructions supplied with the instrument before attempting to sterilize.

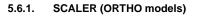
### Warnings for use.

• The instrument is supplied NOT STERILE and must be sterilized before use (see paragraph 1.6.).

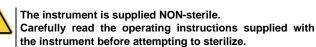
- Carefully read the operating instructions supplied with the instrument before attempting to sterilize.
- For American and Canadian markets only: instruments must be FDA approved.
- · Make sure the threaded sections of the insert and handpiece are perfectly clean.
- · Do not change the shape of the insert.
- · Check wear and tear of the insert on a regular basis, replacing it in the following cases:
- obvious wear,
- drop in performance,
- deformation or impact,

Notes for Sc-a3 scalers:

- class 1 LED apparatus;
- do not direct the light beam in anyone's eyes when cleaning or servicing the device (it is recommended to keep the fiber optics switched off).
- To avoid hazards or malfunctions when connecting the board, do not reverse the positions of the hoses for scalers of different brands.
- The inserts fitted on the handpiece must be in compliance with Biocompatibility Standard ISO 10993.



### Use.



Operating times: see operating instructions supplied with the handpiece.

**f** Cock that regulates the amount of cooling water.

· Place the instrument in its work position.

Instrument activation is highlighted by the relevant managing screen appearing on the display.

• Use the foot control lever to start the instrument (see paragraph 5.2.).

### Adjusting the scaler power output.

 Adjust the scaler power output by pressing "increase" or "decrease" buttons.

The data set are automatically saved.

### Turning on the fiber optics.

• Place the instrument in its work position.

Fiber optics (if provided) are always on.

### Activation/deactivation of independent water supply.

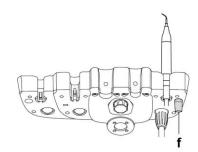
• Press button (T) to activate/deactivate the independent water supply:

Independent water supply active status is highlighted by icon (A) appearing on the console display.

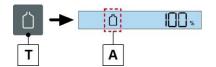
### Cleaning and maintenance.

See paragraph 5.6.

**Safety standards.** See paragraph 5.6.













### 5.7. T LED CURING LIGHT

### Technical specifications.

Supply voltage: 24-36 Vdc Max. power absorbed: 6 VA Light source: 1 5W LED Wavelength: 430÷490 nm Acoustic signals: at cycle start, every 5 seconds, and at cycle end Type of operation: intermittent (work 3 consecutive cycles - rest 60 sec.) Programs: 6 (preset).

### General description of the lamp.

- a Lamp handle.
- **b** Rotary end.
- C Fiber optic.
- d Eye protection.
- e Power cord.
- f Control panel.
- The curing light can be used in different configurations (wand, gun or any intermediate position) as it is more convenient for the user.
  - The curing light is delivered in its original packing which should be kept for future shipment.

### Description of the control panel.

1 LED 1 (STANDARD cycle):

Emission of 1000 mW/sq.cm for 20 seconds (this cycle is set as default at the time of sale).

- 2 LED 2 (FAST cycle):
- Emission of 1600 mW/sq.cm for 15 seconds.

# 3 LED 3 (STRONG cycle):

Emission of 1800 mW/sq.cm for 20 seconds.

### 4 LED S:

When LED S is on, you access ramp cycle mode and at the same time the LEDs next to the letters B, R and L come on:

### [LED S + LED 1] ramp cycle B (BONDING):

Ramp cycle with emission of 500 mW/sq.cm for 5 seconds, ramp from 500 to 1000 mW/sq.cm for 5 seconds and 1000 mW/sq.cm for 5 seconds for a total of 15 seconds.

### [LED S + LED 2] ramp cycle R (RAPID RESTORATION):

Ramp cycle with emission of 500 mW/sq.cm for 5 seconds, ramp from 500 to 2200 mW/sq.cm for 5 seconds and 2200 mW/sq.cm for 5 seconds for a total of 15 seconds.

### [LED S + LED 3] ramp cycle L (LONG RESTORATION):

Ramp cycle with emission of 500 mW/sq.cm for 5 seconds, ramp from 500 to 1800 mW/sq.cm for 5 seconds and 1800 mW/sq.cm for 10 seconds for a total of 20 seconds.

### 5 Malfunction signalling LED:

This red LED comes on only if there is a malfunction.

### 6 START button:

Pressing the START button starts the cycle currently selected (the cycle LED will come on).

If it is pressed again at any time during the cycle, light beam emission will immediately be interrupted.

# 7 MODE button:

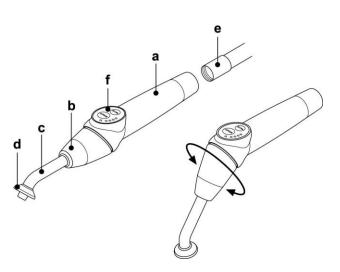
This button is used to select the cycle to be run. It allows changing from the current cycle to the immediately following cycle.

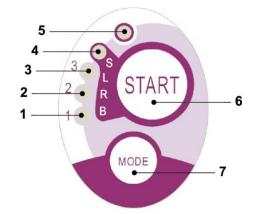
The first three cycles (1, 2 and 3) are at constant power and the LEDs come on individually. When LED S is on, you access ramp cycle mode and at the same time the LEDs B, R and L come on.

Once the LED of the cycle you intend to use has come on, the lamp is ready for use. Pressing the START button, light beam emission is activated according to the selected cycle.



The cycle can be selected and the button is operative only when the curing light is not emitting any light. If the button is accidentally pressed while light is being emitted, nothing will happen.

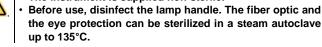




Cycle	LED	Total time	Ø8 mm	Total energy
STANDARD	1	20"	1,000 mW/cm <sup>2</sup>	20,000 mJ
FAST	2	15"	1,600 mW/cm <sup>2</sup>	24,000 mJ
STRONG	3	20"	1,800 mW/cm <sup>2</sup>	36,000 mJ
BONDING	S+1	15"	ramp cycle	11,250 mJ
RAPID REST.	S+2	15"	ramp cycle	20,250 mJ
LONG REST.	S+3	20"	ramp cycle	26,250 mJ

### Operation.

The instrument is supplied non-sterile.



- Put the fiber optic (c) in its housing until it clicks.
- Attach the curing light handpiece to the end of its power hose and tighten the ring nut (e).
- Take the lamp out of its housing on the assistant's board or dentist's board.



Instrument activation is highlighted by the relevant managing screen appearing on the display.

- o the position most
  - 3 L START 1 B MODE
- Turn the front of the lamp and/or fiber optic to the position most suitable for curing (wand, gun or intermediate positions).
- Use the MODE button to select the desired cycle as previously directed (the selected cycle is always indicated by the illuminated LED).

The curing light has a permanent memory therefore the last cycle used will always be present the next time it is used.

· Place the fiber optic in the position required for curing.

The fiber optic should be placed as close as possible to the material to be cured without touching it.

• Press button START to start the cycle.



Operating mode: work 2 consecutive cycles, rest 60 seconds.

When a programmed cycle is activated, the LEDs (1, 2, 3, B, R, L) indicate the time that elapses (in multiples of 5 seconds) and turn off every 5 seconds of operation.

The curing light comes with a beep that BEEPS when the cycle starts, BEEPS every 5 seconds of operation and lastly BEEPS twice at the end of the work cycle.

 Allow light emission to stop by itself. However, it can be stopped at any time by simply pressing the START button again.



- The curing light is equipped with a system that signals malfunctions by illuminating the LEDs in different combinations (see next paragraph).
- The curing light is equipped with a thermal cut-out.

### Indicators.

The following indicators are provided on the control panel to signal curing light fault:

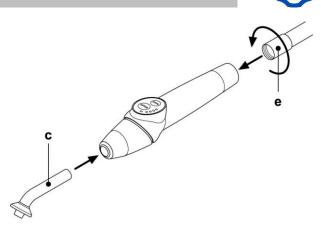
- LED 5 and LED 1, green, steady on. Lamp does not emit any light. Contact technical service department.
- LED 5 and LED 2, green, steady on. Instrument start up microcontroller fault. Contact technical service department.
- LED 5 and LED 3, green, steady on. Power supply too low.

Contact technical service department. • LED 5 and LED 4 flash continuously.

Handpiece cut-out tripped. These LEDs will continue to flash until the light has cooled down enough (about 5 minutes) to be used again. If the problem persists, contact technical service department.

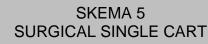
### Maximum curing thickness.

The maximum curing thickness with every single cycle is 3 millimetres (refer to the instructions of the composite material used as well).













This thickness must not be exceeded as the layer may not be completely cured.

### Warnings for use.

- The LED is a Class 2 light source in accordance with IEC 62471 standard. DO NOT STARE AT THE BEAM. The light emitted may cause eye injury in case of direct radiation without eye protection. Always use an eye protection shield when operating the curing light and do not direct the light beam to the eyes. The light emitted may damage soft tissues (oral cavity mucous membrane, gums, skin). Be extremely careful to aim the light precisely on the material to be cured.
- With eye diseases, such as those who have had cataracts removed or retina diseases must be adequately protected when the curing light is used, for example with suitable protective eyewear.
- The rotary end can turn 180° counter-clockwise in relation to the handpiece to change from wand to gun configuration.
- To go back to wand configuration, turn clockwise.

A click is heard when these two positions are reached. Do not turn any more once the click is heard.

The intermediate positions can be used even if a click is not heard.

Put the fiber optic back into the correct position after turning the end section.

- · Do not pull the power hoses.
- Do not expose the handpiece to excessive vibrations.
- Do not drop the handpiece and in particular the fiber optic.
- The light may break if accidentally hit.

Check the condition of the handpiece if it has been banged or dropped before using the curing light.

Try to turn on the light and check operation first without using it on the patient.

If cracked, broken or if there are any other faults, do not use the curing light on the patient and contact the technical service department. The fiber optic is rather delicate and may crack or break if banged, affecting the final amount of light emitted.

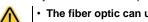
- If dropped, carefully inspect the fiber optic to verify if it is cracked or broken. If cracked, a strong light appears in the spot in which the fiber is cracked. In all these cases, the fiber optic must be replaced.
- The curing light handpiece (sold separately) can be connected only to dental units with connections for this curing light handpiece. Connection to any other equipment may damage the circuits inside the lamp and seriously injure the user and patient.
- The curing light handpiece is not protected against liquid penetration.
- The curing light handpiece is not suitable for use in the presence of flammable anaesthetic gas mixed with air, oxygen or nitrous oxide (N<sub>2</sub>O).

### Cleaning.

The curing light may be a means of cross contamination between patients.

The most contaminated parts are the fiber optic and the eye protection. Before sterilizing them, make sure there are no residues of curing products: if necessary, clean with alcohol or a plastic spatula.

Exclusively sterilise the fiber optic and the eye protection in an autoclave at a sterilization temperature of at least 134°C.



- The fiber optic can undergo 500 autoclave cycles after which it tends to become opaque and therefore emit less light.
- The eye protection must also be replaced after 500 cycles.
- Contact the manufacturer to purchase original spare parts (fiber optic + eye protection: code 97660404).

The handpiece cannot be put in autoclave; disinfect it on the outside with suitable products and

cover it with disposable plastic wrap.

Use soft disposable paper towels to disinfect the handpiece. Do not use harsh products or soak in liquids.

- The curing light handpiece is NOT suitable for autoclave.
- The curing light handpiece is not protected against penetration of liquids therefore it CANNOT be soaked in a solution to be sterilized.
- The outside of the lamp should be disinfected with the fiber optic on.
- Do not use any type of disinfectant on the exposed optical surface of the handpiece when the fiber is removed. The surface will become irreparably opaque if it comes into contact with disinfectant.

### Maintenance.

This equipment does not require any particular type of maintenance.

Only technicians authorised by the manufacturer can replace and/or repair the handpiece and dental unit.

The handpiece has been purposely constructed in a manner that requires specific tools to open it and therefore it cannot be removed by the user.

The warranty is automatically void if the handpiece is altered in any way.

### Troubleshooting.

· When the lamp is removed, the light does not come on (no LED on control panel illuminated).

Make sure the Midwest connection is correctly attached to the power hose.

Carefully screw the ring nut, try to put the lamp back in and then take it out again. If the problem persists, contact technical service department.

Less light emitted.

Make sure the fiber optic is not cracked or damaged in any way: replace it if it is so. Contact the manufacturer to purchase original spare parts.

Make sure there are no residues of curing products on the end of the fiber optic: if necessary, wipe off with alcohol or a plastic spatula.

If the handpiece must be sent back, please disinfect it.

Ship it back in its original packing.

In addition, please enclose a description of the fault with the shipping note.





### 5.8. C-U2 DENTAL CAMERA

The C-U2 dental camera system, complete with an extremely lightweight ergonomic handpiece, is specially designed for simple and well-conceived usability in examining the oral cavity. Auto-exposure and fixed focus features provide easy operation. It is designed to allow the dentist to more efficiently show and explain to patients all oral conditions and reasons for planned treatment. The C-U2 system allows taking high-definition (1280x720) live images of the section in question through the touch of a fingertip on the touch-sensitive area of the handpiece. The live intraoral images are displayed on the monitor or Personal Computer.



The camera may be used as a tool to aid in diagnosis; however, the result must always be supported with visual examination and/or other diagnostic indications.

Evaluations and conclusions based only on the image taken by the camera may be poor as the colours and shapes, electronically processed, may not perfectly correspond to the actual ones.

### Warnings for use.

- The external PC and the external monitor must be of medical grade, i.e. they have to be certified and comply with IEC 60601-1 3rd Edition. They must ensure a double insulation level for both patient (2 MOPP) and operator (2 MOOP):
  - with respect to the power mains;
  - to all the I/O ports (USB, LAN) supplied with Safety Extra Low Voltage (SELV).
- It is advisable not to use it in proximity of life support equipment (e.g. pacemakers or heart stimulators) according to the specifications included in the user manual of such equipment.
- Disposable infection control sheaths must be used with the device and changed for each new patient.
- After putting on a new disposable infection control sheath, check it over before using the camera, making sure it is not torn anywhere. If it is, take it off and put on a new one.
- Do not place the handpiece in liquids or in autoclave.
- Store the handpiece in a clean dry area.
- Do not bend the connecting cable excessively.
- · Be extremely careful not to drop the handpiece and do not expose it to excessive vibrations.
- Never use a damaged handpiece. Make sure the camera is in good condition and has no sharp edges before attempting to use it. If
  in doubt, do not use the handpiece, carefully put it away, and contact technical assistance.
- Before starting the equipment, check the condition of the lens protection.
- · Do not aim the light beam at the operator's or patient's eyes during operation.
- During continuous use (example, more than 10 consecutive minutes), the temperature of the camera's tip usually increases significantly; if this is uncomfortable, put the handpiece in its holder for a few minutes to allow the light source to cool down. When the camera needs to be used for a prolonged time, reduce light brightness using the cursor on the OSD Control Panel (see paragraph 5.8.1.).
- If left running for extended periods, make sure the temperature of the tip is acceptable before attempting to use the camera. Briefly touch the clear plastic part with your fingertip being careful not to touch the lens in the middle.
- Do not attempt to bend, pull or remove the handpiece.

### Disposable infection control sheaths.



The camera can be a source of cross-contamination between patients.

For this reason always use it with a disposable infection control sheath (code 97901590) and disinfect it on the outside after use every day.

The sheath (with white paper backing) is enclosed in two protective layers: a transparent one with blue tab at the front and a paper one at the back.

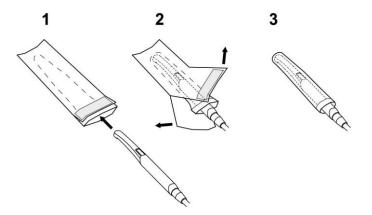
Follow the directions below to install a new disposable infection control sheath:

- Insert the camera handpiece tip between the layer with white tab and the rear paper backing. The lens, surrounded by the LEDS, must face down, towards the rear paper layer. Gently push the handpiece to the end of the sheath.
- Pull the blue tab removing the protective covers.
- · The dental camera is now protected and ready for use.



Always make sure the handpiece is correctly inserted inside the infection control sheath.

- To ensure user and patient safety, always change the disposable infection control sheath before using the device on a new patient.
- Disposal: the disposable infection control sheaths are to be treated as special waste materials (like surgical gloves).



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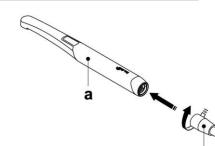
Е

### Connecting the handpiece.

• Attach the handpiece of camera C-U2 (a) to the end of the hose and tighten the ring nut (b).



Make sure the hose is firmly screwed onto the handpiece.



### Use of the camera.

· Place the instrument in its work position. Now camera is activated and is in LIVE mode (monitor shows "moving" images) or FREEZE mode (monitor shows a snapshot).

### Buttons on the camera

Image acquisition. g

### **Console buttons:**

- Ε Enables/disables MIRROR function
- (only with camera extracted and set to LIVE).
- F Turns camera LEDs on/off (only with camera extracted).

### LCD Touch DISPLAY icon buttons:

Α In LIVE mode: allows switching from single to multiple image mode (and vice versa).

In FREEZE mode: allows scrolling through pages with frozen images.

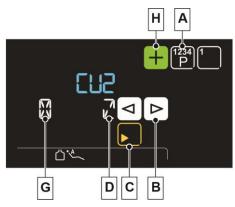
- В In FREEZE mode: it allows selecting the frozen images.
- С Function to EXIT the image management page.
- (camera in FREEZE mode). D Enables/disables zoom.
- G
- Button pressed shortly: deletes selected image. Button pressed and held: it deletes all images on current page.
- н In LIVE mode and in multiple image mode: it allows changing the storage page

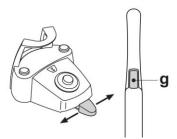
### Image acquisition (FREEZE function).

- · Shortly press the touch key (g) on camera handpiece or operate the foot control to capture the image shown on the monitor. To go back to "live" image, simply touch again the touch key (g) on
- camera handpiece or operate the foot control. When the camera is set back to LIVE mode, the display shows the MAIN PAGE; the image management page remains active in FREEZE mode, press the button (C) to exit it.

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### Turning on camera lighting system.

• Press the button (F) to turn on/off camera lighting system

### **MIRROR** function.

· With the camera set to LIVE mode, briefly press the button (E) on the console to change from viewing real images to mirror images.



The activation of mirror image mode is signalled on the display through icon (E1).





### Setting operation in single image or multiple image mode.

- With the camera set to LIVE mode, briefly press the button (A) to change from viewing a single image to multiple images (and vice versa).
- An icon, found in the top right-hand corner of the monitor, signals when single image mode is active.

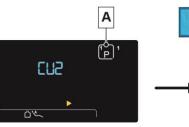
### Operation in single image mode.

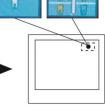
- The "live" image appears on the monitor and a special icon (1) is shown in the top right-hand corner when the camera is set to LIVE and single-image mode.
- By pressing the touch button (g) on the handpiece (or by activating the foot control), you can freeze the image, which is immediately shown on the monitor deleting any other previous image.
- The last frozen image remains on the monitor even if the camera is put back in place.

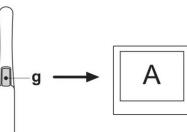
### Operation in multiple image mode.

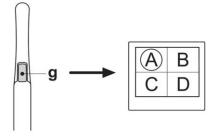
- The "live" image appears on the monitor when the camera is set to LIVE and multiple image mode.
- Pressing the touch button (g) on the handpiece (or activating the foot control), you can freeze the image, which is immediately shown on the monitor.
- The frozen image appears directly on the monitor in the first box available on the page currently displayed. Any following frozen image is then positioned in the following box in reading order. Once the 4 available boxes have been filled, each following frozen image will replace the existing ones appearing always in reading order.
- With the camera in LIVE mode, press the button (H) to change the storage page.

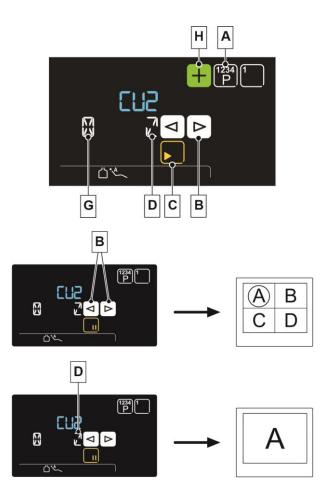
- With the camera in FREEZE mode, by pressing the button (**B**) or by activating the CHIP-AIR command using the foot control (see paragraph 5.2), you can select the stored images in rotation.
- With the camera in FREEZE mode, pressing the button (**D**) you can enable/disable the full screen display of the selected image.













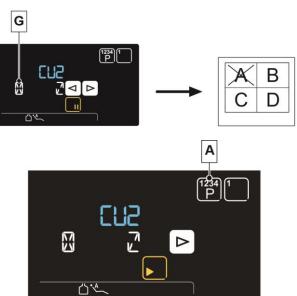
• With the camera in FREEZE mode, press the button (G) to delete the selected image.



Press the button (G) for at least 3 seconds to delete all images on the current page.

### **VIEW** function.

• With the camera in FREEZE mode, by pressing the touch button (A) repeatedly, you can scroll down the pages with frozen images.



### Handpiece status

An optical guide, illuminated by a multicolour LED indicator, found in the area near the control button (g), shows handpiece status as per the table given below:

Colour	Situation		
Blue light flashes, very slowly	Handpiece in standby		
Light blue steady light	Handpiece activated, live images displayed		
Blue/ light blue flashing light	Handpiece in image freeze mode		
Brief red flashes	Internal error: contact Technical Service		

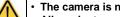
### MyRay iCapture.

This programme allows the C-U2 camera to be set up when it is connected to a PC/WORKSTATION.

For a full description on how the MyRay iCapture programme works, refer to the instructions, in electronic format, supplied with the C-U2 handpiece.

### Cleaning and disinfection.

Clean the handpiece with a suitable product after each use: refer to paragraph 1.5.



The camera is not designed for cold immersion sterilization. All products must be used as directed by the manufacturer.

### Maintenance and repairs.

The C-U2 dental camera does not require any particular maintenance. In the event of malfunctions, please send back the complete handpiece.

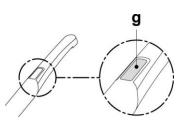
There are no parts that can be repaired on site. In the event of a malfunction, please contact an authorised dealer.

### Returning parts.

- Please send back any defective devices in their original packaging. Do not reuse damaged boxes.
- The device must be disinfected before being shipped to prevent cross-contamination. Handpieces that have not been adequately cleaned and disinfected will not be accepted.



The sender shall be held responsible for any equipment damage occurred during shipment regardless of whether or not the devices are under warranty.









### 5.8.1. C-U2 INTRAORAL CAMERA (ORTHO models)

### Using the camera (DIGIT console).

• Place the instrument in its work position.

Now camera is activated and is in LIVE mode (monitor shows "moving" images) or FREEZE mode (monitor shows a snapshot).

### Buttons on the camera

**g** Image acquisition.

### **Console buttons:**

A In LIVE mode: allows switching from single to multiple image mode (and vice versa).

In FREEZE mode: allows scrolling through pages with frozen images.

- **B** In FREEZE mode: it allows selecting the frozen images.
- **C** Function to EXIT the image management page. (camera in FREEZE mode).
- D Enables/disables zoom.
- (camera in FREEZE mode)
- E Enables/disables MIRROR function

(camera extracted and set to LIVE mode).

**G** Button pressed shortly: deletes selected image. Button pressed and held: it deletes all images on current page. (camera in FREEZE mode).

### Image acquisition (FREEZE function).

- Shortly press the touch key (g) on camera handpiece or operate the foot control to capture the image shown on the monitor.
   To go back to "live" image, simply touch again the touch key (g) on
- camera handpiece or operate the foot control. • When the camera is set back to LIVE mode, the display shows the
- MAIN PAGE; the image management page remains active in FREEZE mode, press the button ( $\mathbf{C}$ ) to exit it.

### Turning on camera lighting system.

· Place the instrument in its work position.

The camera lighting system is always on.

### **MIRROR** function.

• With the camera set to LIVE mode, briefly press the button (E) on the console to change from viewing real images to mirror images.

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The activation of single image mode is signalled on the display through icon (**E1**).

### Setting operation in single image or multiple image mode.

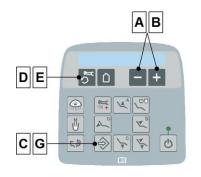
• With the camera set to LIVE mode, briefly press the button (A) to change from viewing a single image to multiple images (and vice versa).

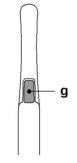
### Operation in single image mode.

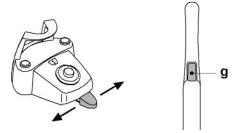
- The "live" image appears on the monitor and a special icon (1) is shown in the top right-hand corner when the camera is set to LIVE and single-image mode.
- By pressing the touch button (g) on the handpiece (or by activating the foot control), you can freeze the image, which is immediately shown on the monitor deleting any other previous image.

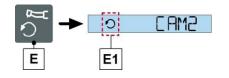


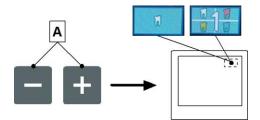
The last frozen image remains on the monitor even if the camera is put back in place.

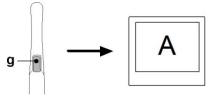












An icon, found in the top right-hand corner of the monitor, signals when single image mode is active.



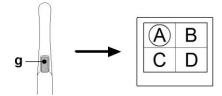


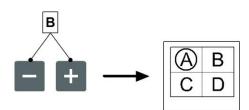
### Operation in multiple image mode.

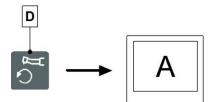
- The "live" image appears on the monitor when the camera is set to LIVE and multiple image mode.
- Pressing the touch button (g) on the handpiece (or activating the foot control), you can freeze the image, which is immediately shown on the monitor.
- The frozen image appears directly on the monitor in the first box available on the page currently displayed. Any following frozen image is then positioned in the following box in reading order. Once the 4 available boxes have been filled, each following frozen image will replace the existing ones appearing always in reading order.
- With the camera in FREEZE mode, by pressing the button (**B**) or by activating the CHIP-AIR command using the foot control (see paragraph 5.2), you can select the stored images in rotation.
- With the camera in FREEZE mode, pressing the button (**D**) you can enable/disable the full screen display of the selected image.
- With the camera in FREEZE mode, press the button (G) to delete the selected image.

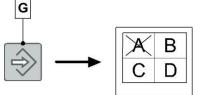
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P Press the button (**G**) for at least 3 seconds to delete all images on the current page.













### 5.9. ELECTRONIC APEX LOCATOR

The instrument is used to locate the apex of the root canal during endodontic treatments. The apex localisation is useful to obtain the work length together with the visible reference rubber stopper, which is manually positioned on the probe inserted in the canal. With micromotor in ENDODONTIC mode and with suitable contra angles, the locator uses the same file inserted in the canal as the active detection probe. The instrument does not replace X-ray diagnostics, which must be implemented in any case.

### Component description.

- 1 APEX LOCATOR external wiring.
- 1.1 APEX LOCATOR external wiring neutral pole.
- **1.2** APEX LOCATOR external wiring active pole.
- **2** Hook-type electrode.
- 3 Probe.
- **4** APEX LOCATOR clip connecting tweezers.
- **5** APEX LOCATOR external wiring port.

### Operation.

 On this dental unit, the locator is automatically activated upon external wiring (1) insertion inside the special socket (5) positioned under dentist's board.

Once enabled, the menu for trigger threshold setting appears on the DISPLAY.

Electrode application:

- Connect hook-type electrode (2) to neutral pole (1.1) and position it on patient's lip.

Connect active pole (1.2) to file (not supplied) inserted inside the root canal; connection to the file can be carried out through probe (3) or through the special tweezers (4) or directly from the file inserted in the canal through special handpieces.



## Indications on LCD TOUCH display.

- A1 Bargraph for graphic display of the file position from apex.
- **A2** APEX: numerical display of the file distance from apex.
- A3 ALARM: it indicates the distance between instrument and apex above which an audible signal - progressively increasing as instrument gets closer to apex - is generated.



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Set that distance using the INCREASE (V) and DECREASE (U) buttons.

Both graphic and numerical indications are constantly updated while file is inserted inside canal.

### APEX LOCATOR combined with electric micromotor.

This locator can also be used in combination with the electric micromotor when set to ENDO mode.

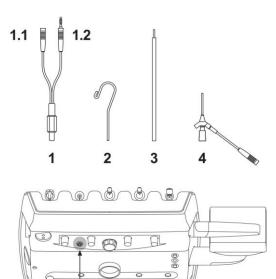
When the locator is enabled, if electric micromotor is extracted in ENDO mode both the information relating to the micromotor and those relating to locator (bargraph and APEX values) are shown at the same time on the display.

During electric micromotor operation, the keys are associated to instrument functions, and locator trigger threshold cannot be edited but by putting instrument back in place.

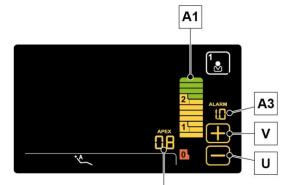
With the Goldspeed EVO E4® and Sirona Endo 6:1 contra angles it is also possible to enable the APEX STOP function, which automatically stops the micromotor once the triggering threshold is reached:

- X1 APEX STOP disabled.
- **X2** APEX STOP enabled

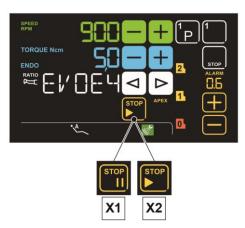
Root canal length detection.



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- Do not use the ELECTRONIC APEX LOCATOR in case of teeth with canals obstructed or too large, presence of blood or saliva, fracture, broken crown or metal crown.
- · Always use the locator in combination with X-ray test to accurately define apex position.
- Before each use of the ELECTRONIC APEX LOCATOR, perform a pre-test by inserting connector 1.1 into connector 1.2 and checking that the "APEX" value is -0.5. DO NOT use the ELECTRONIC APEX LOCATOR in case of pre-test failure.
- Different, and not always predictable, morphological conditions could lead to inaccurate readings. For example: too large root canal, retreatments, root fractures.
- Make sure that the electrode is correctly hooked onto the patient's lip throughout the duration of the use of ELECTRONIC APEX LOCATOR.



Upon each use of the ELECTRONIC APEX LOCATOR, check that an acoustic signal is emitted when the external wiring is coupled to the dental unit outlet.

If no acoustic signal is emitted in this phase, it means that the buzzer is not working properly: in such situation, the dentist can only rely on the information shown on the console. Contact the Technical Service to have the buzzer checked.

- The use of manual file is of the utmost importance for canal detection. The correct procedure entails file insertion inside canal until reaching indication 0.5.
- · Insert the file with a slow clockwise rotation until the APEX indication appears on the instrument.
- Once APEX indication appears, move the file backward by turning it counter-clockwise until reaching again the value of 0.5. Position a rubber stopper close to the occlusal surface as a reference point to define the work length inside root canal.
- Make an X-ray to check file correct positioning.
- Remove file from canal and measure the work length with a ruler. Deduct a safety value of 0.5-1 mm from the reading.

### Cleaning and sterilization.

- The hook-type electrode, probe, apex locator connection clip and handpiece are components that can be sterilized in water steam autoclave up to 135 °C by following the instructions of the equipment.
- The apex locator external wiring can be disinfected on the outside with suitable products.
- The File is not supplied by CEFLA s.c. and it is the dentist's responsibility to get and use sterile Files.



# Carry out the sterilization and disinfection procedures on apex locator components between uses.

### 5.10. ZEN-Xi INTEGRATED SENSOR

The integrated ZEN-Xi sensor is a medical device used for the acquisition of intraoral X-rays in electronic format through the interface with a Personal Computer.



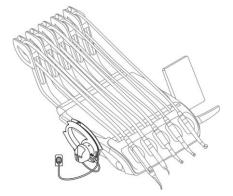
Do not use the system for tasks other than the acquisition of intraoral X-rays, and do not use it if you are not an expert in dentistry and radiology.

Use

ZEN-Xi integrated sensor instructions for use are included with the equipment, please read carefully the warnings for use before turning sensor on.



The integrated ZEN-Xi sensor has no electrical interaction with the dental unit.







# 6. ASSISTANT'S BOARD OPERATION

### Description of the parts.

- **a** Assistant's board: it can hold 2 suction tubes and 3 instruments, of which 1 is dynamic.
- **b** Control panel used to operate the dental chair and water unit.
- **C** Guides with sliding rollers that hold up the hoses of the suction tubes.
- **d** Articulated arm allowing positioning the assistant's board in the area most convenient for the operator.

The arm is equipped with a safety device that stops dental chair movement as soon as it detects an obstacle.

Pair of articulated arms allowing positioning the assistant's board in the area most convenient for the operator.

The two arms are equipped with a safety device that stops dental chair movement as soon as it detects an obstacle.

f Pantograph arm with six work positions, allowing a vertical stroke of the assistant's board of 300 mm.

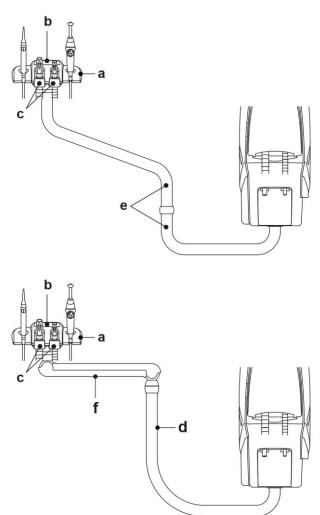
To move the pantograph arm back to the fully lowered position, lift it until reaching the end of travel and then lower it.

**h** ORTHO assistant's board: it can hold 2 suction tubes and 3 instruments, of which 2 are dynamic.

i ORTHO control panel to control the functions of dental chair, water unit and the instruments housed on the assistant's board.

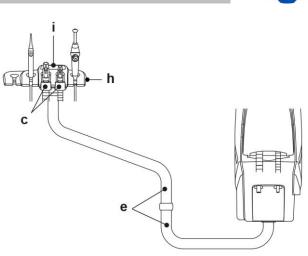
Dental units model: SKEMA 5 SKEMA 5 CP

е

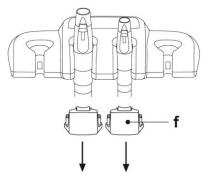








- Cleaning the sliding rollers.
  Push down and take off the sliding rollers (c).
  Clean the sliding rollers with a suitable product: refer to paragraph 1.5.







### 6.1. ASSISTANT'S BOARD CONSOLE

- 1 Standard version.
- 2 ORTHO model version.

### Description of the buttons:

Α	Dental unit POWER SAVING button
	(with relevant warning LED)

- L Operating light on/off button
- B1 Water-to-cup button
- B2 Water-to-bowl button
- P1 Seat up and programmed position A recall button
- P2 Backrest up and programmed position B recall button
- P3 Seat down and programmed position C recall button
- P4 Backrest down and emergency position D recall button
- P5 Rinse position recall button
- P6 Reset position recall button
- H1 Fast activation button for AUTOSTERIL / FLUSHING cycles
- H2 S.S.S. system enabling/disabling button
- **U** Decreases settable values.
- V Increases settable values.
- **E** Reversing micromotor drill rotation direction.
- **R** Enabling dental chair position storage.
- D Digit DISPLAY

Operation of dental chair movement buttons (P1, P2, P3, P4):
 <u>Button pressed shortly</u>: automatic recall of set position.
 <u>Button pressed and held</u>: manual positioning.
 Operation of hygiene cycle activation button (H1):
 <u>Button pressed shortly</u>: LONG FLUSHING cycle.

• Button pressed and held: AUTOSTERIL cycle.

### 6.2. INSTRUMENTS ON ASSISTANT'S BOARD

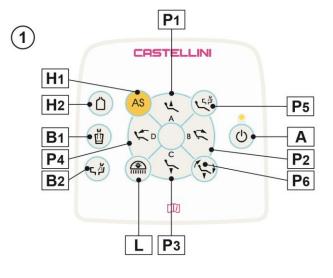
All the instruments applied to the assistant's board maintain the same operation as those on the dentist's board.

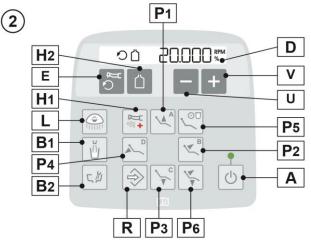
In particular:

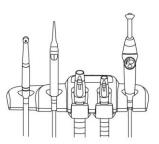
- Syringe, see paragraph 5.3.
- Turbine, see paragraph 5.4.
- Micromotor, see paragraph 5.5.
- Scaler, see paragraph 5.6.
- Curing light, see paragraph 5.7.
- Camera, see paragraph 5.8.

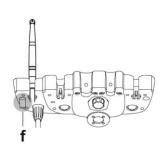
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The turbine, micromotor and scaler have a cock (f) for adjusting the spray water, under the assistant's board. It is not possible to adjust the amount of spray air in the turbine and micromotor.









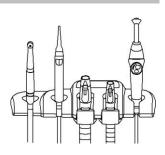




### Instruments on ORTHO assistant's board.

The applicable instruments are as follows:

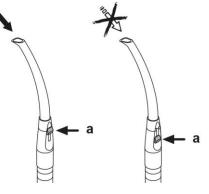
- Syringe, see paragraph 5.3.
- Turbine, see paragraph 5.4.1.
- Micromotor, see paragraph 5.5.3.
- Scaler, see paragraph 5.6.1.
- Curing light, see paragraph 5.7.
- Camera, see paragraph 5.8.2.

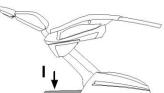


# 6.3. SUCTION TUBES

Suction starts when lifting the suction tube holder off its support. To adjust suction power, use the lever (a) located on the suction tube holder handle.

The dental unit is equipped with the V.D.S. system that allows the drying of the suction line using an automatic stop delay (about 2 seconds). For flushing procedure, see paragraph 7.6.





# 

### Suction Stop.

In the presence of "Independent selection of suction tubes" or "Centralised suction solenoid valve" options, it is possible to stop/restart suction by pressing the stop foot board (I).

### Removing the suction tubes.

Always wear goggles and gloves to prevent contact with infected material when removing the suction tubes.

- Open the door (c).
- Remove the suction tubes from the conveyor fittings by turning and pulling the tube fitting.
- Detach the suction tubes from the holders by turning and pulling the tube fitting.



Never directly grasp the suction tube.

# Flushing the suction tubes

As the dental units may be equipped with different suction systems (liquid or wet ring, air) carefully follow the instructions provided by the suction system manufacturer when disinfecting the system regarding the product to be used, times and directions for use.



For cleaning of the suction system, it is recommended to use STER 3 PLUS (CEFLA s.c.) diluted in a 6% solution (equivalent to 60 ml of product in 1 litre of hot water).

STER 3 PLUS must be used as specified by the manufacturer.

### Sterilization.

• Suction tube holder terminals: steam autoclave up to 135 °C following the instructions for the use of the device.

· Suction tubes: soak to cold-sterilize.

With the tubes, never use procedures where temperature exceeds 55 °C.

### Maintenance.

Periodically lubricate the O-rings of the suction tube holder terminals (see Paragraph 9.4.) using S1-Protective Lubricant for O-Rings (CEFLA s.c.).

### Note about biocompatibility.

Only use suction tubes supplied with the dental unit and original spare tubes. The suction tubes must comply with Biocompatibility Standard ISO 10993.







### **ISOLITE** suction tube.

For ISOLITE suction tube operation, please refer to the specific use instructions given by the manufacturer.

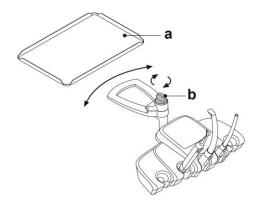
### 6.4. TRAY HOLDER

The tray holder (**a**) is made of stainless steel and can easily be removed from its support.

Tray holder support can rotate both clockwise and counter-clockwise, so as to be positioned in the most convenient position for the operator. To lock/unlock the tray holder support, simply turn the clutch knob (**b**).



Maximum permitted load on the tray holder: 1 kg distributed.





### Warnings for use.

The dental unit equipped with hydraulic saliva ejector does not comply with standard EN 1717.

The hydraulic saliva ejector starts running when the tube is removed from the support.

### Cleaning after each use.

Aspirate about  $\frac{1}{2}$  litre of STER 3 PLUS (CEFLA s.c.) diluted in a 6% solution (equivalent to 60 ml of product in 1 litre of hot water).

STER 3 PLUS must be used as specified by the Manufacturer.

### Cleaning the saliva ejector filter.

This operation must be carried out at the end of each work day.

Wear gloves before attempting to perform this operation!

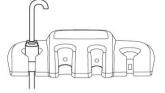
- Aspirate about ½ litre of STER 3 PLUS diluted in a 6% solution (equivalent to 60 ml of product in 1 litre of hot water).
- In order to prevent possible dripping of liquids and matter from the filter
   (b) to be extracted, suck only air for about 5 seconds.
- Take off the cap (a) by turning and pulling at the same time.
- Remove the filter (b).
- Clean/replace the filter (code 97290060).
- Put the filter and cap back in place.

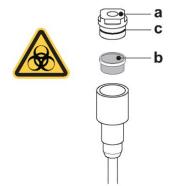


To prevent liquids and matter from dripping from the filter taken out, suck air only for approximately 5 seconds before performing these operations.

### Routine maintenance.

Lubricate the O-Ring (c) using S1-Protective Lubricant for O-Rings.









### 7. WATER UNIT OPERATION

### 7.1. FILL CUP AND BOWL

The bowl can be turned 305° on the water unit by hand or using a motor drive (optional).

The bowl and the water-to-cup spout can be removed to make cleaning operations easier.

### **Control buttons**

- H Water-to-cup button.
- J Water-to-bowl button.

Bowl flushing automatically stops after 30 seconds. Bowl washing automatically starts in the following cases:

- When the rinse position button (**K**) is pressed.
- When the water-to-cup delivery button  $(\mathbf{H})$  is pressed.

### Hot water to cup

When this function is provided, hot water is always delivered to the cup.

### Cup sensor (S) (optional)

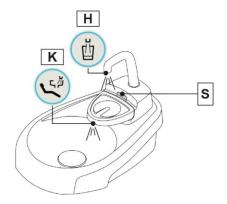
An optical sensor detecting cup presence and automatically enabling cup filling can be installed under cup spout.

Operation:

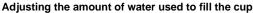
- when the cup is placed under the spout, water delivery starts after 2 seconds for the duration set,
- once cup is removed, the automatic filling can be repeated after 3 seconds,
- during filling, by removing cup, water delivery is immediately interrupted,
- to disable cup sensor, call the Technical Service.

### Motor-driven bowl automatic movements

- Bowl automatically moves in the following cases.
- When "Dental chair rinse position" button is pressed.
- When "Dental chair reset position" button is pressed.







After switching on the dental unit, press button (A) 3 times to enter the water unit settings



1 intermittent BEEP will initially signal that the procedure is being carried out correctly, then the intermittent BEEP will be replaced by the slow flashing of LED (L1), indicating that it is possible to proceed with the settings.

- Press button (B1) once to start filling the cup.
- Once the desired water level has been reached, press button (B1) again.

LA.

When the maximum time allowed by the manufacturer is reached, the water delivery will automatically stop and this time will be saved.

· Press and hold button (A) to exit the settings and confirm the changes made

The LED (L1) will turn off after exiting the settings.

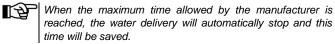
### Bowl flushing time setting.

After switching on the dental unit, press button (A) 3 times to enter the water unit settings



1 intermittent BEEP will initially signal that the procedure is being carried out correctly, then the intermittent BEEP will be replaced by the slow flashing of LED (L1), indicating that it is possible to proceed with the settings.

- · Press button (B2) once to start delivering water to the bowl.
- · Press button (B2) again to set the bowl flushing time.



· Press and hold button (A) to exit the settings and confirm the changes made



The LED (L1) will turn off after exiting the settings.

### Changing bowl operation.

Water delivery to the bowl can take place in an untimed manner (ON/OFF operation of the relative control button).

After switching on the dental unit, press button (A) 3 times to enter the water unit settings

1 intermittent BEEP will initially signal that the procedure is  $\mathcal{A}$ being carried out correctly, then the intermittent BEEP will be replaced by the slow flashing of LED (L1), indicating that it is possible to proceed with the settings.

· Press and hold button (B2) to enter the bowl function settings.

- The fast flashing of LED (**L1**) will signal the bowl function 19 settinas
- Press button (B2) to change the operation.
- A beep sounds to signal the selected operating mode.
- 1 BEEP: timed operation.
- 3 BEEPS: ON/OFF operation.

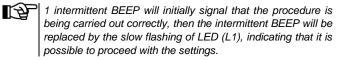
Timed operation is factory set.

· Press and hold button (A) to exit the settings and confirm the changes made.

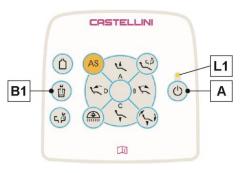
The LED (L1) will turn off after exiting the settings.

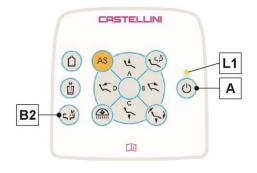
Changing the water to bowl controller with water delivered to cup. The controller that delivers water to the bowl when the button (B1) is pressed can be turned on/off.

After switching on the dental unit, press button (A) 3 times to enter the water unit settings.

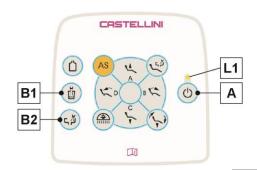


· Press and hold button (B2) to enter the bowl function settings.













- The fast flashing of LED (L1) will signal the bowl function 1 settings.
- Press button (B1) to change the operation.
- A beep sounds to signal the selected operating mode.
- 1 BEEP: controller enabled.
- 3 BEEPS: controller disabled.

The controller is enabled by default.

· Press and hold button (A) to exit the settings and confirm the changes made.

The LED (L1) will turn off after exiting the settings.

### Water-to-bowl controller modification upon recall of dental chair **RINSE POSITION.**

The controller that delivers water to the bowl when the button (P5) is pressed can be turned on/off.

After switching on the dental unit, press button (A) 3 times to enter the water unit settings



1 intermittent BEEP will initially signal that the procedure is being carried out correctly, then the intermittent BEEP will be replaced by the slow flashing of LED (L1), indicating that it is possible to proceed with the settings.

- · Press and hold button (B2) to enter the bowl function settings.
- The fast flashing of LED (L1) will signal the bowl function settings.
- Press button (P5) to change the operation.
- A beep sounds to signal the selected operating mode.
- 1 BEEP: controller enabled.
- 3 BEEPS: controller disabled.

The controller is enabled by default.

Press and hold button (A) to exit the settings and confirm the changes made.

The LED (L1) will turn off after exiting the settings.

### Water-to-bowl controller modification upon recall of dental chair AUTOMATIC RETURN.

The controller that delivers water to the bowl when the button (P6) is pressed can be turned on/off.

- After switching on the dental unit, press button (A) 3 times to enter the water unit settings.
  - 1 intermittent BEEP will initially signal that the procedure is 19 being carried out correctly, then the intermittent BEEP will be replaced by the slow flashing of LED (L1), indicating that it is possible to proceed with the settings.
- Press and hold button (B2) to enter the bowl function settings.

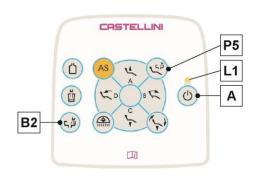


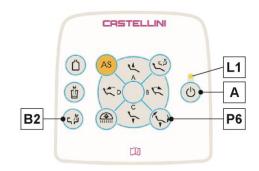
The fast flashing of LED (L1) will signal the bowl function settings.

- Press button (P6) to change the operation.
- A beep sounds to signal the selected operating mode.
- 1 BEEP: controller enabled.
- 3 BEEPS: controller disabled.
- The controller is enabled by default.
- · Press and hold button (A) to exit the settings and confirm the changes made



The LED (L1) will turn off after exiting the settings.









### Spout, bowl and bowl filter removal.

- Pull up the spout (I) and take it off.
- Pull up the filter (q) and its cover (p) from the bowl to remove them.
- Remove cover (n), then pull bowl (m) up to remove it.

### **Disinfection and cleaning**



# Always wear gloves to prevent contact with infected material when cleaning the bowl and bowl filter.

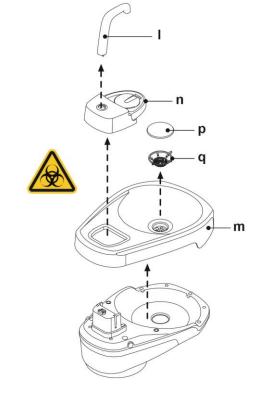
The parts are to be cleaned daily at the end of each working day.

- Water dispensers: thoroughly wash with a specially formulated scaleremover.
- Bowl filter: clean with running water and commercially-available cleaning products.
- Bowl: clean with commercially-available detergents specific for the material composing it.
- Bowl drain line: pour 1 litre of STER 3 PLUS diluted in a 6% solution (equivalent to 60 ml of product in 1 litre of hot water), this operation improves drain line efficiency and prevents blockages.



Do not use acids or abrasive products.

STER 3 PLUS must be used as specified by the Manufacturer.







### 7.2. S.S.S. SYSTEM

### Description of the system.

This system features a tank (a) suitable to contain the independent water supply, preferably distilled water.

The tank has a total capacity of 1.8 litres and feeds:

- The sprays of all the instruments present on dentist's and assistant's boards.
- · The syringe present on the assistant's board.
- · The cup filling system.
- The water quick coupling (if available).
- Press the button  $(\mathbf{T})$  to activate/deactivate the independent water.



Independent water supply active status is highlighted by icon
 (A) appearing on the console display.

### Tank reserve warning.

When the fluid inside the tank drops below the reserve level, a special warning icon  $(\mathbf{B})$  appears on dentist's board console.

### Filling the tank.

Once tank min. level is reached (approx. 500 cc), fill it as follows:

- Press the button (T) to deactivate the independent water supply (icon A not appearing on the DISPLAY).
- Remove tank (a) by turning it clockwise.
- Fill the tank until reaching the max. level.

 $\wedge$ 

Use distilled water or demineralised/deionised water. For enhanced hygiene, it can be added with 600 parts per million (ppm) of hydrogen peroxide by adding 35 ml of Peroxy Ag+ or 35 ml of 3% Hydrogen Peroxide (oxygenated water, 10 volumes)

· Fit the tank back in place by turning it counter-clockwise



Make sure that tank is duly fastened.

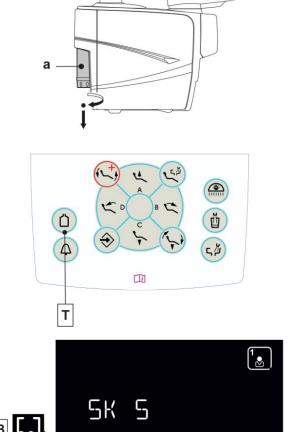
• Touch the button (T) to re-enable the S.S.S. system. Check that icon (A) on display turns on

> If you are going to be absent from the surgery for long periods of time (holidays), completely empty the tank (a) before leaving. It is advisable to empty it by calling water to the cup (use the cup supplied), until air comes out of the nozzle.

### Cleaning and disinfection of the tank.

It is recommended to periodically disinfect (at least once a month) the tank only, using as disinfectant Peroxy Ag+ Cefla or 3% Hydrogen Peroxide (Oxygenated Water, 10 volumes), acting as follows:

- · Remove tank from dental unit and drain it completely.
- Fill tank to the brim with the disinfectant.
- · Allow the disinfectant to remain in the tank for at least 10 minutes.
- · Drain disinfectant from the tank.
- · Rinse tank with distilled water.
- · Fill tank with distilled water, if necessary charging it with the substances indicated above.
- · Fit tank back into its seat inside dental unit.







### 7.2.1. "S.S.S." SYSTEM MANUAL

Fitted on models: SURGICAL SINGLE CART

System features a tank (a) for distilled water. The tank has a total capacity of 1.8 litres. Tank supplies:

- · The sprays of all the instruments present on dentist's and assistant's boards.
- The cup filling system.
- The water quick coupling (if available).

With manual S.S.S. system: when it is not used for approximately one month, we recommend against using the water (about 50 cc) that first comes out of the quick coupling.

This system also allows performing a disinfection cycle of instrument spray ducts using disinfectant in the tank instead of the supply liquid (see paragraph 7.2.2.).

### Activation/deactivation of independent water supply.

A by-pass toggle (b) allows you to activate/deactivate the independent water supply:

- toggle on "TANK" position, independent water supply on,
- · toggle on "LINE" position, mains water supply on

### Tank reserve warning.

Visually check fluid level in the tank periodically as the system does not feature any specific warning icon.

### Filling the tank.

Once tank min. level is reached (approx. 500 cc), fill it as follows:

- Switch the toggle (c) to "CLOSE AIR PRESSURE" position.
- Remove tank (a) by turning it clockwise.

During this operation the pressurised air present inside the tank will be automatically bled to the outside.

· Pour distilled water inside the tank until reaching the max. level.



Use distilled water only. For enhanced hygiene, it can be added with 600 parts per million (ppm) of hydrogen peroxide using 20

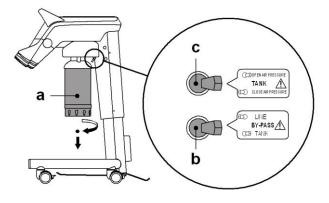
ml of Peroxy Ag+ per litre of distilled water, or oxygenated water (20 ml of 3% oxygenated water per litre of distilled water).

- · Fit the tank back in place by turning it counter-clockwise.
- Switch the toggle (c) back to "OPEN AIR PRESSURE" position.

Make sure that the tank is correctly secured in place before switching toggle (c) to "OPEN AIR PRESSURE" position.

If you are going to be absent from the surgery for long periods of time (holidays), completely empty the tank (a) before leaving.

Cleaning and disinfection of the tank. See paragraph 7.2.







### 7.2.2. MANUAL DISINFECTION CYCLE WITH S.S.S. SYSTEM

The S.S.S. system allows performing a manual disinfection cycle of the water ducts of all the instruments on the dentist's board and of the syringe located on the assistant's board.

To perform the disinfection cycle, proceed as follows:

### 1 Preparing the disinfectant solution:

 Pour undiluted PEROXY Ag+ (or 3% oxygenated water) into the tank marked with an orange band (supplied).

### 2 Disinfectant injection phase:

• Replace the independent supply tank (a) (bottle marked with a grey band) with the disinfectant tank (bottle marked with an orange band) (see paragraph 7.2.1).

Make sure that there is a quantity of liquid equal to at least 300 cc.

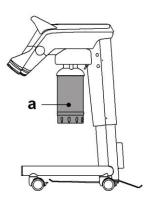
- Make sure the spray cocks (d) found towards the bottom of the board, are fully open (if they are not, either very little or no water at all will flow out).
- Press the button to fill the water in the cup for 5 (five) consecutive times, thus filling 5 cups of water.

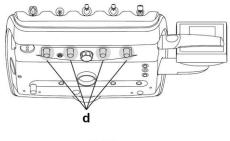
This step is very important because it allows you to ensure that all the liquid in the pipes is replaced with the disinfectant.

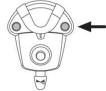
 Remove the instruments one at a time and allow water to flow for at least 2 minutes using the CHIPWATER foot control for dynamic instruments (see section 5.2.) and the water button for syringes.

Now the ducts contain disinfectant liquid.

• Put the instruments back in place.







### 3 Disinfectant contact time:

PEROXY Ag+ (or 3% oxygenated water) must be left to dwell in the ducts for at least 10 minutes, but not more than 30 minutes.

### 4 Duct rinsing phase:

- Replace the bottle of disinfectant (orange band) with the bottle of normal independent supply (grey band).
- As in the previous phase, remove the instruments one at a time and allow water to flow for at least 2 minutes using the CHIPWATER foot control for dynamic instruments (see section 5.2.) and the water button for syringes.
- Press the button to fill the water in the cup for five consecutive times, thus filling five cups of water.
   This step is very important because it allows you to ensure that all the disinfectant fluid in the pipes is replaced with the independent water supply liquid.



IMPORTANT at the end of the disinfection cycle, always replace the tank containing the disinfectant (tank with orange band) with the normal one (tank with grey band).

### NEVER USE A DISINFECTANT TO IRRIGATE THE PATIENT'S ORAL CAVITY.

### PEROXY Ag+ storage.

For proper PEROXY Ag+ storage, follow the manufacturer's instructions given on the package.

It is important to keep the package tightly closed and stored in a cool place at a temperature not exceeding 25°C.



Never leave PEROXY Ag+ or oxygenated water in the tank (a) for more than one month.

If you are going to be absent from the surgery for long periods of time (holidays), completely empty the tank (a) before leaving.





### 7.3. M.W.B. SYSTEM (MULTI WATER BIO CONTROLLER)

The M.W.B. system ensures a safe, physical, separation of the dental unit water system from the water mains thanks to a water free fall section (in compliance with EN 1717).

In addition, system continuously delivers hydrogen peroxide inside water circuit with a final concentration inside ducts of 0.06% (600 ppm), which is suitable to carry out bacteriostasis.

To this end, the use of PEROXY Ag+ (CEFLA s.c.) is recommended; or 3% Hydrogen Peroxide (oxygenated water, 10 volumes).

### Description of the system.

The M.W.B. system is positioned inside the connection box and is always active.

A tank (a) located inside the water unit contains approx. 500 cc. of disinfectant fluid to supply the system.



- The M.W.B. system is automatically disabled when the S.S.S. system is enabled.
  - For console with LCD Touch DISPLAY:

A specific icon (G) on the dentist's console display signals that the tank (a) contains a sufficient amount of disinfectant fluid.

### Disinfectant fluid running out warning.

When the oxygenated water present in the tank (a) is running out, the dental unit emits an intermittent sound (3 BEEPS) that is repeated at every start-up of the equipment.

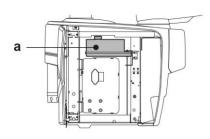


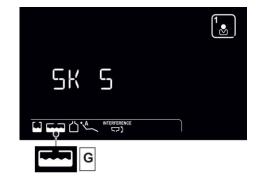
E P

If disinfectant fluid has run out, the dental unit will nevertheless continue working, but it will use UNTREATED mains water.

We recommend topping up disinfectant fluid as soon as possible.

The exhaustion of the disinfectant inside the tank also causes a clear slowdown in the operations of use of the M.W.B. system, which should not be considered a fault. The normal operation of the system is obtained by restoring the correct level of disinfectant inside the relevant tank.





### **Disinfectant fluid tank filling**



To fill up, use pure PEROXY Ag+ or 3% oxygenated water (10 volumes) only, without diluting them. Wear eye protection and gloves when carrying out this operation.

Dental units of SKEMA 5 series: • Open the water unit side cover.

- Turn the tank (a).
- Remove plug (k) and pour disinfectant fluid inside tank until it is full.
- The plug shape allows it to be used as a funnel to make filling easier.
- · Refit plug and tank.
- · Lastly, close the water unit side cover.

### Emptying the M.W.B. system water circuit

This function allows emptying the M.W.B. system water circuit.



 $\square$  This operation is recommended if the dental unit has been

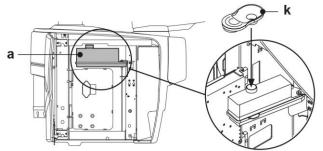
switched off for more than 7 days.

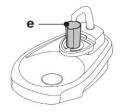
Proceed as follows:

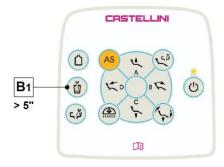
- the special supplied cup (e) under the spout.
- Press and hold button (**B1**) for at least 5 seconds to start the emptying cycle, the DISPLAY will show the system's code illuminated.

Cycle will not start if:

- S.S.S. system is active;
- there is an error in the M.W.B. system
- Wait for the water circuit to be emptied, a sound (3 BEEPS) will be emitted at the end of the operation.
- Now the dental unit is in lockout mode and it can be turned off.
- At restart, the M.W.B. system will be automatically restored.











### Warning messages on Display.

If system detects a malfunction, an error message will be displayed (see paragraph 10).

If the detected error is negligible, the dental unit continues working, while in case of severe errors, the dental unit will be blocked and Technical Service is required.

### PEROXY Ag+ storage.

For proper PEROXY Ag+ storage, follow the manufacturer's instructions given on the package.

It is important to keep the package tightly closed and stored in a cool place at a temperature not exceeding 25°C.



Never leave PEROXY Ag+ or oxygenated water in the tank (a) for more than one month.

If you are going to be absent from the surgery for long periods of time (holidays), completely empty the tank (a) before leaving. To empty tank, use a suction tube.





#### 7.4. AUTOSTERIL AUTOMATIC DISINFECTION SYSTEM

#### Description of the system.

This system allows carrying out an automatic disinfection cycle of the water circuits of the following instruments:

- all instruments that require water for their use are placed on the dentist's board,
- the syringe and any other instruments that require water for their use are placed on the assistant's board,
- water-to-cup ducts.

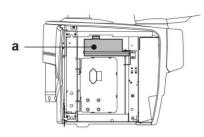
In addition, system features a tank (a) positioned inside the water unit and suitable to contain approx. 500 cc. of disinfectant fluid.

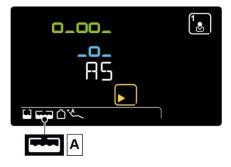


Carry out a disinfection cycle at the end of every working day.

#### Disinfectant fluid running out warning.

When the disinfectant fluid present inside tank (a) is running out, a special warning icon (A) appears on the DISPLAY, an error message appears on the DISPLAY and 3 warning BEEPS are emitted and repeated whenever dental unit is turned on.





#### Disinfectant fluid tank filling.

See paragraph 7.3.

To fill up, use pure PEROXY Ag+ or 3% oxygenated water (10 volumes) only, without diluting them. IRRITATING LIQUID: wear eye protection and gloves when carrying out this operation.

#### Setting the disinfection cycle.

• Check disinfectant fluid level inside tank and, if necessary, top up.

- The disinfection cycle will not be activated if the fluid level inside tank is below reserve level.
- Enter the AUTOSTERIL disinfection cycle by pressing and holding button (H1) on the assistant's board.



LCD TOUCH console only: disinfectant fluid residence time in the water ducts can be set (see paragraph 5.1.1.1.3.).

• Remove the cover and insert the hoses of the instruments to be disinfected in the suitable container found in the water unit.



For the syringe instrument, it is necessary to remove the handle and completely insert the dedicated adapter (f) (second click). The heating system must be switched off. The micromotor hose must be fully inserted inside motor body.

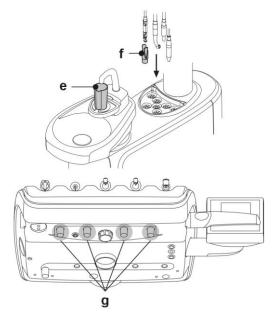
Turbine and scaler hoses must be inserted without the handpiece.

• Should you wish to disinfect suction tubes, insert tube terminals inside the special couplings under manifold (see paragraph 7.5.).

Make sure that suction tube terminals are open.

- If water-to-cup duct disinfection is selected, place the special supplied cup (e) under cup spout.
- Make sure that spray cocks (g), positioned on board lower side, are fully open.









#### Performing the disinfection cycle.

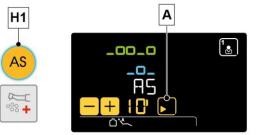
- Start the automatic disinfection cycle by touching the button (A) on the LCD TOUCH display or by pressing the button (H1) on the assistant's board.
- Now the system automatically performs the following operations:
- Emptying water ducts of instruments with air.
- Introduction of disinfectant fluid and starting of the counting of the previously-set residence time.
- Once time has elapsed, start of a new duct emptying phase with air.
- Ducts flushing with mains water or with independent supply fluid (only if S.S.S. system is installed and active).
- Disinfection cycle time: approx. 20 minutes (depending on the number of instruments being disinfected).

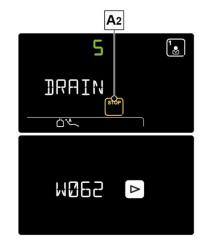
#### Disinfection cycle interruption.

- Touch icon button (A2) to interrupt the disinfection cycle at any time.
- Now the system automatically performs the emptying and flushing operations for each selected instrument. At the end of these operations, the warning message W062 is displayed.
- · Press the arrow to remove the warning and "END" will be shown.
- · Put the instruments back in place.



**DIGIT** console only: once the disinfection cycle has started, it can no longer be interrupted.





#### PEROXY Ag+ storage.

For proper PEROXY Ag+ storage, follow the manufacturer's instructions given on the package.

It is important to keep the package tightly closed and stored in a cool place at a temperature not exceeding 25°C.



Never leave PEROXY Ag+ or oxygenated water in the tank (a) for more than one month. After your absence from the surgery for long periods of time (holidays), completely empty the tank (a) before restarting the dental unit.

To empty tank, use a suction tube.

#### Warning messages on DISPLAY.

If system detects a malfunction, a warning message will be displayed (see paragraph 10).



In case of irregular interruption of the disinfection cycle, the equipment will stay in lockout condition until the disinfection cycle is run again or a flushing cycle is carried out.





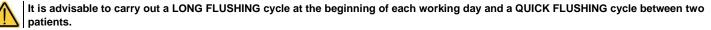
#### 7.5. I.W.C.F. AUTOMATIC SYSTEM (INTEGRATED WATER FLUSHING CYCLE)

#### Description of the system.

This system allows carrying out an automatic FLUSHING cycle to renew water present in the water ducts of the instruments on the dentist's and the assistant's boards and the water-to-cup duct.

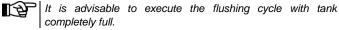
The flushing cycle can be carried out with mains water, with M.W.B. system (if installed) or with S.S.S. system (if installed). Available cycles are two:

- QUICK FLUSHING (cycle time: 20 seconds).
- LONG FLUSHING (cycle time can be set from 2 to 10 minutes).



#### Flushing cycle setting.

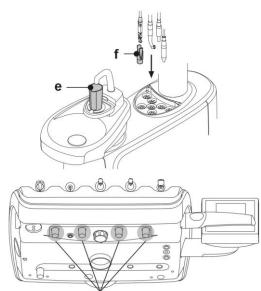
• If the S.S. system is installed and you wish to carry out the flushing cycle with distilled water, make sure that the relevant icon on the console DISPLAY is on (see paragraph 7.2.).



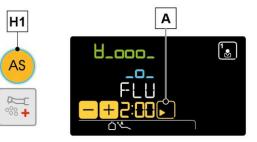
- Use the DISPLAY to access the "FLUSHING cycle setting" menu, and set cycle time (see paragraph 5.1.1.1).
- Insert the hoses of the instruments to be disinfected in the suitable container found in the water unit.

For the syringe instrument, it is necessary to remove the handle and completely insert the dedicated adapter (f) (second click). The heating system must be switched off. Turbine and scaler hoses must be inserted without the handpiece.

- Insert the special supplied container (e) under the cup spout.
- Make sure that spray cocks (g), positioned on board lower side, are fully open.



g



# Performing the flushing cycle. Start the flushing cycle by touching the icon button (A) on the LCD TOUCH display or by pressing the button (H1) on the assistant's

TOUCH display or by pressing the button (H1) on the assistant's board.

Make sure that liquid actually comes out of the instruments during the automatic cycle.

• At the end of the flushing cycle, put the instruments extracted back into place to return to the working condition.

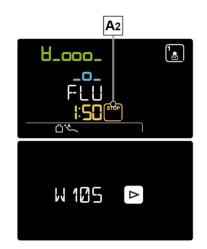
#### Flushing cycle interruption.

- Touch icon button (A2) to interrupt the flushing cycle at any time.
- The warning message W105 is displayed.
- Press the arrow to remove the warning and "END" will be shown.
- · Put the instruments back in place.

DIGIT console only: once the flushing cycle has started, it can no longer be interrupted.

#### Warning messages on DISPLAY.

If system detects a malfunction, a warning message will be displayed (see paragraph 10).







#### 7.6. A.C.V.S. SYSTEM (AUTOMATIC CLEANING VACUUM SYSTEM)

#### Description of the system.

This system allows cleaning the suction lines.

System features a tank (a) with detergent fluid and two couplings (d) used for suction tube flushing.

Detergent fluid tank has a total capacity of approx. 550 cc.

It is possible to choose between two flushing cycles of the suction ducts: • STANDARD (1':15")

• INTENSIVE (4')

The cycles are automatic and are recommended after each operation (STANDARD cycle) and at the end of the day (INTENSIVE cycle) before implementing the disinfection procedures of the suction systems. The INTENSIVE cycle will help remove any residual dry dirt.

The INTENSIVE cycle is not available if the S.S.S. system is active

#### How to start the flushing cycle.

To start the flushing cycle, proceed as specified below.

- · Make sure that tank (a) contains enough detergent fluid.
- Remove both suction tube terminals from assistant's board supports, making sure that suction motor starts.
- Open the mechanical covers of the suction tube terminals (opening lever completely up).
- Insert suction tube terminals inside the relevant couplings (d) located under manifold. The vacuum created inside the Venturi tubes starts the flushing cycle.
- If you wish to proceed with the INTENSIVE cycle, press the button (H1). The STANDARD washing cycle will start after more than 8 seconds of inactivity.
- Once cycle is over, the message "Put suction tubes back in place" will appear on the DISPLAY.
- Now simply put suction tube terminals back into their supports on assistant's board to go back to working condition.

#### Filling the tank.

It is recommended to use STER 3 PLUS (CEFLA s.c.) diluted in a 6% solution (equivalent to 60 ml of product in 1 litre of hot water). STER 3 PLUS must be used as specified by the Manufacturer.

Dental units of SKEMA 5 series

- Move the dental chair fully up.
- Remove tank (a) by rotating it counter-clockwise.
- Pour the detergent liquid into the tank until it is full.
- Refit the tank (a) by turning it clockwise.

#### Stopping the flushing cycle.

If system detects a malfunction, a warning message will be displayed (see paragraph 10).

Once stop causes are removed, the flushing cycle will restart automatically.

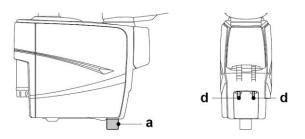
#### 7.7. OPENING/CLOSING THE WATER UNIT SIDE COVER

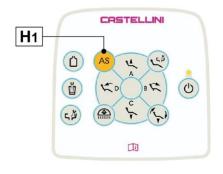
#### Opening the cover.

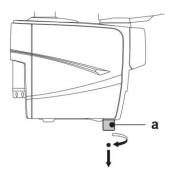
- Disengage water unit side cover (a) by grasping handle (h) and pulling it up.
- · Open the cover by turning it outwards.

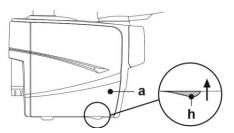
#### Closing the cover.

• Close the cover until you feel the mechanical locking of the handle (h).









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#### 8. ACCESSORIES

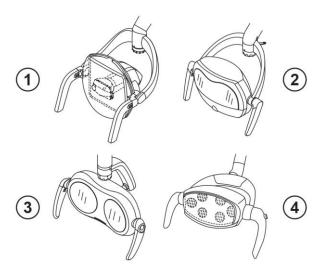
#### 8.1. OPERATING LAMP

The operating light comes in 4 models:

- 1 Lamp with halogen light source, model VENUS PLUS.
- 2 Lamp with LED light source, VENUS PLUS model, L version.
- **3** Lamp with LED light source, VENUS PLUS model, MCT version.
- 4 Lamp with LED light source, VENUS PLUS model, E version.

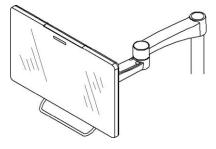
The instructions for use and maintenance of the lamps are available in PDF format and can be downloaded from the download area of the www.castellini.com.

During the automatic movements of the dental chair, the lamp automatically turns off to prevent blinding the patient.



# 8.2. MONITOR ON LAMP POLE

The instructions for use and maintenance of the monitor are provided with the device.  $\label{eq:constraint}$ 



#### 8.3. NEGATOSCOPE FOR PANORAMIC X-RAYS

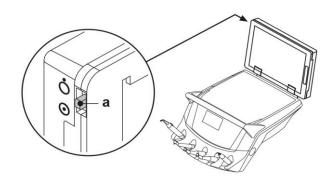
A negatoscope for panoramic X-rays can be mounted on all dentist's board versions with hanging hoses.

The screen dimensions are as follows: H = 210 mm, L = 300 mm. To turn on negatoscope, simply turn special switch (**a**):



Negatoscope off.

Negatoscope on.









#### 8.4. AIR/WATER/230V QUICK-COUPLINGS

- Α Power outlet: 230Vac 2A in accordance with IEC/EN 60320-2-2/F (only on dental units with 220-240Vac power supply).
- В Air quick coupling: pressure 6 Bar. С
  - Water quick coupling: pressure
    - with mains water, 2.5 Bar;
    - with S.S.S. system, 1.8 Bar;
    - with M.W.B. system, 3 Bar.
    - Water quick-coupling: flow rate
    - with mains water, 1800 ml/min;
    - with S.S.S. system, 950 ml/min;
    - with M.W.B. system, 400 ml/min.
    - With the S.S.S. independent water supply system, in P order to use the quick-coupling with mains water, the relevant tank needs to be disabled (see paragraph 7.2.).
      - · Switch off the equipment before attempting to connect or disconnect the air/water outlets.
      - Do not connect instruments with no anti-retraction device on the water duct.
      - After each use and before disconnecting the water inlet, operate the connected instrument for 20 seconds with no load to perform a manual flushing of the duct.

POWER

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0 0 B

O C

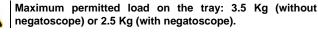
Sterilize and/or disinfect all the external instrument as specified by the Manufacturer.

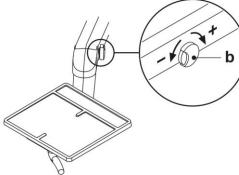
#### 8.5. AUXILIARY TRAY HOLDER

Tray holder can contain two standard size trays.

- Turn knob (b) to adjust vertical movement based on load:
- Turn clockwise to increase resistance (heavy loads).

Turn counter-clockwise to decrease resistance (lightweight loads).









### 9. MAINTENANCE

#### **Preventive maintenance**

CEFLA s.c., the manufacturer of the medical devices, in accordance with applicable standards IEC 60601-1 3rd Ed. - 2007, IEC 62353 and Directive MDD 93/42, as amended and supplemented, for medical devices underlines that the following scheduled maintenance checks specified in the Technical Service Manual are to be carried out by authorised personnel at least once every 12 months:

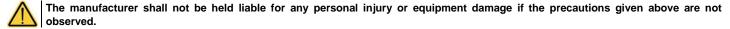
- Checking the supplies (air, water, electricity).
- · Checking the anti-crushing safety devices, movement of arms and dental chair.
- · Checking and adjusting the device (water supply, suction, foot control) and instruments.
- · Checking the operating light, the multimedia system, the hygiene systems.
- · Measurement of protective conductor resistance and leakage currents.

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The warranty is void if the equipment is serviced, repaired, altered or modified in any way by personnel who have not been duly authorised by CEFLA s.c..

#### Safety checks.

In accordance with standard IEC 62353, the safety checks specified in the Technical care manual and Maintenance and warranty handbook supplied with the dental unit are to be carried out at the intervals required by current local regulations. If no precise indications are given, CEFLA s.c., the manufacturer of the dental units, recommends checking them at least every 24 months at the time of installation and whenever electrical parts that are live are repaired/updated.



#### 9.1. MAINTAINING THE INSTRUMENTS

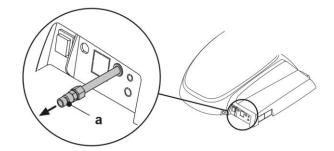
Maintenance instructions for the instruments are enclosed with each instrument.

Maintenance of the instruments should be carried out with the equipment switched off.

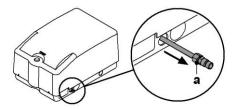
#### 9.2. DRAINING CONDENSATE

Perform this operation every day before starting work. Proceed as follows:

- Remove the condensate drain cock (a).
- Place a container under cock.
- · Loosen the cock knob.
- After the draining is complete, fully close the cock.



Dental units model: SURGICAL SINGLE CART.







#### 9.3. SUCTION FILTER CLEANING

This operation should be done daily at the end of work.



BIOLOGICAL HAZARD

Always wear goggles and gloves to prevent contact with infected material when cleaning the suction filters.

- Open filter protection door (e).
- One at a time remove filters (d).
  - The door (e) can be removed for use as a tray for the extracted filter.
- Clean/replace the filters (code 97461845).
- Refit filters.
- · Close door (e).



Before refitting the filter, make sure to remove any amalgam residues still present on each filter seat mouth. If used as a tray, the door (e) must be cleaned thoroughly before it can be fixed in place again.

In order to prevent any dripping of liquids and secretions from the filter being removed, it is advisable to carry out the above operations with the suction tube working.

#### 9.4. SUCTION LINES

The suction lines must be disinfected using a product suitable for this purpose.



For cleaning of the suction system, it is recommended to use STER 3 PLUS (CEFLA s.c.) diluted in a 6% solution (equivalent to 60 ml of product in 1 litre of hot water). STER 3 PLUS must be used as specified by the Manufacturer.

#### At the end of each surgical procedure.

- Perform an automatic flushing cycle or suck in about 1/2 litre of sanitising solution with each one of the suction tubes used.
- Sterilize the suction tube holder terminals in a steam autoclave (see paragraph 1.6).

#### At the end of each working day.

- Suck in 1 litre of water with each suction tube, alternating water and air (keep the suction tube alternately in and out of the water).
- After rinsing with water, suck in about 1/2 litre of sanitising solution with each one of the suction tubes used.



# All sanitising products must be used as specified by the manufacturer.

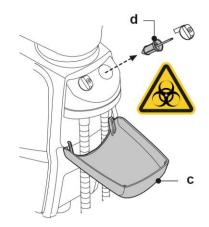
After flushing and disinfection, it is good practice to suck in air only to dry the entire suction system (5 minutes).

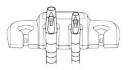
#### Once a week.

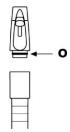
Remove the suction tube body from its hose attachment and lubricate the O-rings (o) using S1-Protective Lubricant for O-Rings (CEFLA s.c.).

#### Once a year.

Replace the suction tubes and suction tube holder terminals.









#### 9.5. AIR-LIQUID SEPARATOR CANISTER BY CATTANI

#### At the beginning of each working day.

Insert inside filter (d) a defoaming tablet (v).



### **BIOLOGICAL HAZARD**

Always wear gloves and goggles to prevent contact with infected material when carrying out this operation.

#### At the end of each surgical procedure.

- · Perform an automatic flushing cycle or suck in about 1/2 litre of sanitising solution with each one of the suction tubes used.
- Sterilize the suction tube holder terminals in a steam autoclave up to 135°C following the instructions for use of the device.

#### At the end of each working day.

- Suck in 1 litre of water with each suction tube, alternating water and air (keep the suction tube alternately in and out of the water).
- After rinsing with water, suck in about 1/2 litre of sanitising solution with each one of the suction tubes used.



After flushing and disinfection, it is good practice to suck in air only to dry the entire suction system (5 minutes).

#### Every 15 days.

- Clean the separator container and probes with a soft non-abrasive sponge and neutral detergent.
- Clean the drain valve for the separator's container with the brush provided for this purpose.

#### Once a year.

By technician: check the siphons and drains, check all the internal tubes and plastic and rubber parts subject to wear.

#### Before leaving the surgery for a few days.

Start suction and run it for 20-30 minutes without sucking in any liquids. The suction unit will dry completely. As a result, salt caused by moisture and basic substances will not form. Said salt may cause fan seizure and motor blockage.

### How to remove the separator's container.

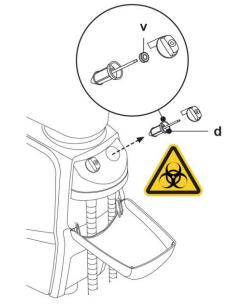


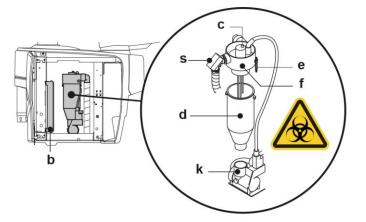
**BIOLOGICAL HAZARD** 

Always wear gloves to prevent contact with infected material when carrying out the following operation.

Dental units of SKEMA 5 series:

- Move the dental chair fully up.
- Open the water unit side cover.
- Turn the electric box (b) after releasing the corresponding retainer.
- · Completely empty the separator container, pressing the proper timed button (c) located on the cover.
- If present, remove the valve (s) for centralised systems.
- Turn and raise the container until it is detached from the drain pump (k).
- Detach the container (d) from the cover (f) pulling up the two side rubber bands (e).
- After the cleaning operations, refit the container (d) after lubricating the O-rings using S1-Protective Lubricant for O-Rings (CEFLA s.c.).





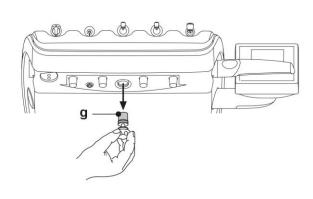
#### 9.6. CLEANING THE TURBINE RETURN AIR FILTER

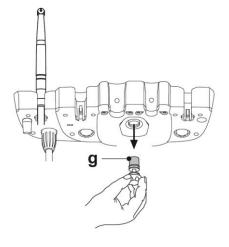
Monthly check the oil container filter (g) present in the turbine's return air line. If necessary, replace the filter element (code 97290014).

If the micromotor instrument is also present on the assistant's board, remember that the relevant filters must be cleaned.









#### 9.7. METASYS AMALGAM SEPARATOR

The maintenance instructions for the METASYS amalgam separator are enclosed with the equipment, if the equipment comes with this type of separator.

The separator control device is located in the water unit.



Always wear goggles and gloves to prevent contact with infected material when cleaning the separator.

When disposing of disposable containers full of amalgam, observe current local and national laws.

#### 9.8. DÜRR AMALGAM SEPARATOR

The maintenance instructions for the DÜRR amalgam separator are enclosed with the equipment if the equipment comes with this type of separator. The separator control device is located in the water unit.



Always wear goggles and gloves to prevent contact with infected material when cleaning the separator.
When disposing of disposable containers full of amalgam, observe current local and national laws.

#### 9.9. DENTAL CHAIR

The dental chair does not need any special maintenance.

In any case, operation should be checked by the manufacturer's authorised personnel once a year.





#### 9.10. CATTANI GRAVITY SURGICAL SEPARATOR

#### Draining the separator's container.

- Move the dental chair completely up so that as much liquid as possible can be drained from the container.
- Turn the container (m) counter-clockwise and remove it.



#### BIOLOGICAL HAZARD

# Always wear gloves to prevent contact with infected material when carrying out this operation.

• Refer to the instructions provided by CATTANI enclosed with the equipment to drain the container in the disposable container provided for this purpose (code 97290027).



When disposing of disposable containers full of amalgam, observe current local and national laws.







#### **10. WARNING/ERROR MESSAGES**

Two types of notices can be displayed on the console display: warning messages (Wxxx) and error messages (Exxx). Warning messages (Wxxx) indicate situations that require user intervention.

Error messages (Exxx) indicate situations that cannot be fixed by the user and require the intervention of the Technical Service.

When contacting the Technical Service, please communicate the error number displayed.

Warning	Cause	Solution	
W001	Action not allowed.	End movements, lay down instruments.	
W050	The disinfection cycle preparation page opens with the instruments not in rest position.	To start a disinfection cycle, all disinfection instruments must be in a rest position.	
W051	AUTOSTERIL start request performed without selecting any instrument or cup.	Select the instrument, cup or suction tubes, then activate the disinfection cycle.	
W057	The system has stopped the disinfection cycle after detecting instruments changed during the cycle.	To restart the disinfection cycle after a lockout, use the same instruments extracted during the stopped cycle.	
W059	AUTOSTERIL start request performed without any extracted instrument or selected cup.	Select the instrument or cup, then start the disinfection cycle.	
W060	H2O2 tank empty.	Fill H2O2 tank.	
W061	A user has requested to skip the disinfection pause.	None	
W062	At the end of the cycle, a warning is issued if the pause has not been made.	None	
W063	H2O tank empty.	Fill H2O tank.	
W064	H2O2 tank empty.	Fill H2O2 tank.	
W065	Dentist's board water cocks closed.	Check that the dentist's board water cocks are open, if the problem persists, contact technical service department.	
W066	Emptying is not possible since bypass is not selected.	Select mains water supply.	
W067 W068	It is impossible to fill M.W.B. system internal tank.	Open main water supply, if the problem persists, contact the Technical Service department.	
W100 W700	An instrument has been extracted with active foot control.	Release the foot control, then activate the instrument.	
W101 W701	Instruments extracted at start-up.	Put the instruments back in place.	
W102 W702	Instrument not detected.	Check connections, if the problem persists, contact the technica service department.	
W103 W703	A Flushing request has been made with no extracted instrument.	Repeat the Flushing cycle request with instrument extracted.	
W104 W704	A Flushing request has been made S.S.S. tank in reserve.	Fill H2O tank and repeat the Flushing request, if the problem persists, contact technical service department.	
W105 W705	Flushing Ended with error.	Repeat the Flushing cycle.	
W106 W706	Flushing is not possible since bypass with long cycle is not selected.	Repeat the Flushing cycle request with mains water selected.	
W150	Suction tubes extracted at start-up.	Put suction tubes back in place.	
W151	Instruments extracted at start-up.	Put instruments back in place.	
W200	A movement has been interrupted or a movement request cannot be implemented since the safety device of the assistant's board arm has been triggered.	Remove the obstacle; if the problem persists, contact the technical service department.	
W206	Suction tube washing with bottle not allowed	Deselect supply from bottle and repeat the suction tube washing cycle request with mains water selected.	
W207	H2O tank empty.	Fill H2O tank.	
W208	The suction tube washing has been intentionally interrupted again.	None	
W209	During the washing cycle, suction tubes do not suck.	Check that suction tube terminals are open or that filters are clean; if the problem persists, contact technical service department	
W210	Suction tube washing successfully completed.	None	
W211	Water supply change requested during AUTOSTERIL or Flushing cycle.	End AUTOSTERIL or Flushing cycle.	
W253	Scheduled maintenance is overdue.	Contact technical service department.	
W352	Wireless foot control battery is flat.	Connect the power cable to the foot control.	
W353	Wireless foot control battery is charged.	Disconnect the power cable from the foot control.	
W355	Wireless foot control not connected.	Activate the wireless foot control for at least 1 second.	





Warning	Cause	Solution
W400	A movement has been interrupted or a movement request cannot be implemented since the safety device of the foot board under the dental chair has been triggered.	Remove the obstacle; if the problem persists, contact the technical service department.
W401	A movement has been interrupted or a movement request cannot be implemented since the safety device of the dental chair backrest has been triggered.	Remove the obstacle; if the problem persists, contact the technical service department.
W403	Any movement request has been made during a disinfection cycle.	Wait for the end of the disinfection cycle, then put the instruments back in place to make movements available again.
W406	A movement has been interrupted or a movement request cannot be implemented since the safety device of the bowl has been triggered.	Manually move the bowl out of the interference area.
W409	A movement has been interrupted or a movement request cannot be implemented since the safety device of the dental chair seat has been triggered.	Remove the obstacle; if the problem persists, contact the technical service department.
W410	A movement has been interrupted or a movement request cannot be implemented since the safety device of the side delivery arm has been triggered.	Remove the obstacle; if the problem persists, contact the technical service department.
W411	An automatic movement request A/B/C/D has been made with one extracted instrument.	Put instrument back in place in the rest position to make automatic movement programmes available again.
W412	A movement request has been made with one extracted instrument	To move the dental chair manually, disable the instrument. To activate automatic movements, disable the instrument and put i back in place.
W413	A movement request has been made with dental chair lock option enabled.	Remove the dental chair lock using the suitable button.
W415	A movement has been interrupted or a movement request cannot be implemented since the safety device of the backrest cover has been triggered.	Remove the obstacle; if the problem persists, contact the technical service department.
W416	A movement has been interrupted or a movement request cannot be implemented since the safety device of the footrest has been triggered.	Remove the obstacle; if the problem persists, contact the technical service department.
W417	A movement has been interrupted or a movement request cannot be implemented since the safety device of the leg support has been triggered.	Remove the obstacle; if the problem persists, contact the technical service department.
W424	The bowl movement request cannot be implemented since the dental chair is in the interference position.	Lower the dental chair in order to move it out of the interference position, then request the bowl movement.
W428	A movement has been interrupted or a movement request cannot be implemented since the safety device of the bowl has been triggered.	Remove the obstacle; if the problem persists, contact the technical service department.
W430	A movement has been interrupted or a movement request cannot be implemented since the thermal cut-out of the dental chair lifting motor has been triggered.	Wait for the motor to cool down.
W431	Filesystem error.	Restart.

If the warning message is not included in the list, please contact the Technical Service department for further details.

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ΕN

## SKEMA 5 SURGICAL SINGLE CART



## 11. TECHNICAL DATA

Lastella Cara - L	SKEMA 5	97042147
Installation plan:	SURGICAL SINGLE CART	97042046
	SKEMA 5	97071239
Technical manual:	SURGICAL SINGLE CART	97071248
Spare parts catalogue:		97023067
	SKEMA 5	90 kg
Maximum dental unit weight:	SURGICAL SINGLE CART	60 Kg
Maximum dental chair weight:		115 kg
Maximum dental chair capacity:		190 kg
Rated voltage:		220-240 V~ 100-120 V~
Rated frequency:		50/60 Hz.
Rated current:		10 A (220-240 V~) 15 A (100-120 V~)
Air connection:		1/2 Gas.
Air supply pressure:		6-8 bar.
Air delivery flow rate:		82 l/min.
Water connection:		1/2 Gas.
Water supply pressure:	3-5 bar.	
Water supply pressure:	10 l/min	
Water consumption:	2 l/min.	
Water hardness:	< 25 °f (14 °d)	
Water conductivity at 20°C:		< 2000 µS/cm
Drain connection:		ø40 mm
Drainage flow rate:		10 l/min.
Drain duct inclination:		10 mm/m.
Suction connection:		ø40 mm.
Suction vacuum (minimum):		65 mbar.
Suction flow rate:		450 l/min.
Mark of approval:		CE 0051
Electrical work in compliance with:		IEC 60364-7-710
Dentel unit media i	SKEMA 5	1580x780x1350(h)
Dental unit packaging dimensions:	SURGICAL SINGLE CART	1580X780X1130(h)
Dental chair packaging dimensions:	SKEMA 5	1520x730x1030(h)
	SKEMA 5	145 kg
Packed dental unit weight:	SURGICAL SINGLE CART	85 Kg





Packed dental chair weight:

SKEMA 5 140 kg

	Claud madula
	Cloud module
	Type of transmission: Wi-Fi
	Operation frequency band: 2412 - 2484 MHz
Radio module technical data:	Maximum power: +21.5 dBm
Radio module technical data.	Wireless pedal module
	Type of transmission: Bluetooth®
	Operation frequency band: 2402 - 2480 MHz
	Maximum power: +4 dBm

FUSES					
Identification	Value	Protection	Position		
<i>MAIN</i> Fuse	T 10 A T 15 A	220-240 V ~: Dental unit power supply line 100-120 V ~: Dental unit power supply line	Connection box		
DENTAL CHAIR Fuse F1	T 6.3 A	220-240 V ~: Dental chair power supply line.	Connection card		
<i>DENTAL CHAIR (INVERTER)</i> Fuse F1 Fuse F2	T 6.3 A T 8 A T 10 A	220-240 V ~: Inverter power supply line 100-120 V ~: Inverter power supply line Inverter motor	Inverter card Inverter card		
QUICK COUPLINGS Fuse	T 2 A	220-240 V ~: Power outlet supply line	Connection box		



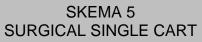


dental unit is designed to operate in the specified electromagnetic environment. The customer or the user of this dental unit ensure its use in an electromagnetic environment with the following features:					
Emission test Conformity Electromagnetic Environment					
RF emissions CISPR 11	Group 1	The dental unit uses RF energy only for its internal operation. For this, the RF emissions are very low and do not interfere with electronic devices nearby.			
RF emissions CISPR 11	Class A	The dental unit must be used only by adequately trained der and paramedics. The dental unit may cause radio interference disturb the operation of the nearby equipment. It may be neces to adopt countermeasures, such as re-orienting or moving dental unit or shielding the installation site.			

Guidance and Manufacturer's declaration - Electromagnetic immunity The dental unit is designed to operate in the specified electromagnetic environment. The customer or the user of the dental unit must ensure its use in an electromagnetic environment with the following features:

Immunity test	IEC 60601-1-2 Test level	Level of conformity	Electromagnetic Environment
Electrostatic discharge (ESD) IEC 61000-4-2	± 8 kV contact ± 15 kV air	IEC 60601-1-2 Test level	Floors must be made of wood, concrete or ceramic tiles. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Proximity fields from RF wireless communications IEC 61000-4-3	27 V/m at 385 MHz 28 V/m at 450, 810, 870, 930, 1720, 1845, 1970, 2450 MHz 9 V/m at 710, 745, 780, 5240, 5500, 5785 MHz	IEC 60601-1-2 Test level	Portable and mobile RF communications equipment should be used no closer to any part of the dental unit, including cables, than the minimum distance recommended in this section.
IEC 61000-4-4 fast/burst electric transients	± 2 kV for electrical lines ±1 kV for input/output lines > 3 m	IEC 60601-1-2 Test level	The power supply line quality should be that of a typical commercial or hospital environment.
Overvoltage IEC 61000-4-5	± 1 kV differential mode ± 2 kV standard mode	IEC 60601-1-2 Test level	The power supply line quality should be that of a typical commercial or hospital environment.
Voltage drops, short interruptions and voltage change on the IEC 61000-4-11 input electric line	Ut = 0% (at 0°, 45°, 90°, 135°, 180°, 225°, 270°, 315°) for 0.5 cycles Ut = 0% per 1 cycle Ut = 70% (a 0°) per 25/30 cycles Ut = 0% per 250/300 cycles	IEC 60601-1-2 Test level	The power supply line quality should be that of a typical commercial or hospital environment. If the dental unit user requires a continuous operation also in case of blackout, it is recommended to power the dental unit with uninterruptible power supply or batteries.
Magnetic field at network frequency (50/60 Hz) IEC 61000-4-8	30 A/m	IEC 60601-1-2 Test level	The magnetic fields at network frequency should feature levels typical of a standard commercial or hospital environment.

nsure that it is used in such environment.						
Immunity test	Test level	conformity	Electromagnetic Environment			
			The RF communication devices (portable and mobili must not be used at a distance from the dental unit ar its components, including cables, lower than the recommended distance calculated using the corresponding equation applicable to the transmitte frequency. Recommended distance.			
Radiated RF EN 61000-4-3	3 V/m From 80 MHz to 2.7 GHz	IEC 60601-1-2 Test level	$d = 1.2 \times \sqrt{P}$ 80 MHz to 800MHz $d = 2.3 \times \sqrt{P}$ 800 MHz at 2.7GHz			
Conducted RF EN 61000-4-6	3 V 150 kHz to 80 MHz 6V ISM frequencies	IEC 60601-1-2 Test level	<i>d</i> = 1.2 x √ <i>P</i>			
			Where P is the maximum output power of the transmitter in Watt (W) according to the transmitted Manufacturer, and d is the recommended distance metres (m).           The field intensity of the fixed RF transmitter determined based on an electromagnetic site, could be lower than the conformity level in each frequency interval.           Near the equipment with the following symbility interferences can be caused:			





		$(((\bullet)))$
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#### Recommended distance between the RF portable and mobile communication devices and the dental unit. The dental unit is intended for use in electromagnetic environment where RF irradiated disturbances are controlled. The customer or the user of the dental unit can prevent electromagnetic interferences by ensuring a minimum distance between RF mobile and portable (transmitter) communication devices and the dental unit as shown below, according to maximum power output of the communication devices.

Transmitter maximum nominal output	Distance according the transmitter frequency (m)		
(W)	<b>150 KHz to 80 MHz</b> $d = 1.2 \times \sqrt{P}$	80KHz to 800MHz $d = 1.2 \times \sqrt{P}$	800 KHz to 2.7 MHz d = 2.3 x √P
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23

For transmitters having a maximum nominal output power not listed above, the recommended distance d in metres (m) can be determined using the corresponding equation applicable to the transmitter frequency where P is the maximum output power of the transmitter in Watt (W) according to the transmitter Manufacturer.

Note:

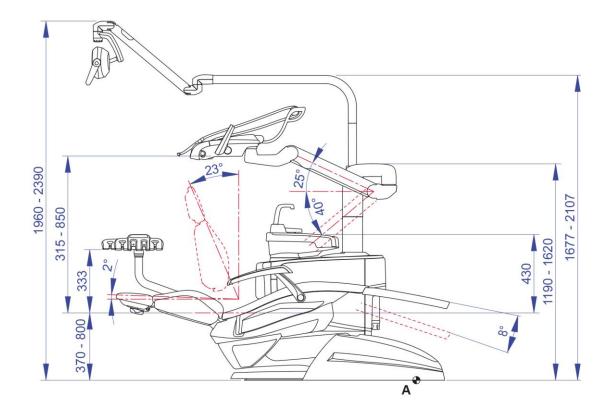
(1) At 80MHz and 800MHz it is necessary to apply the distance defined for the highest frequency interval.

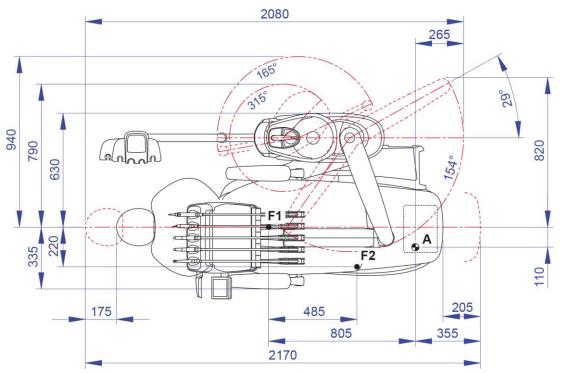
(2) These guidelines cannot be applicable to all situations. The electromagnetic propagation is influenced by the absorption and reflection of structures, objects and people.





### **11.1. SKEMA 5 DIMENSIONAL CHARACTERISTICS**

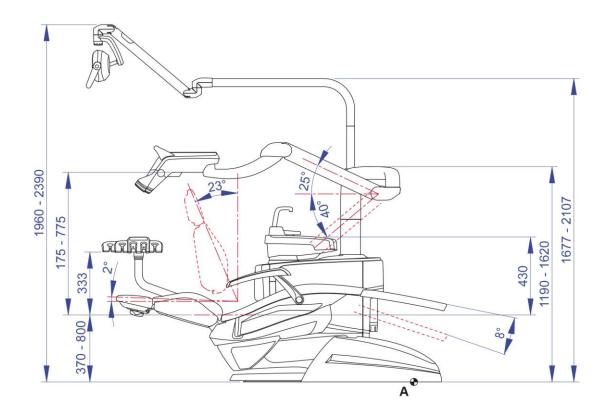








## **11.2. SKEMA 5 CP DIMENSIONAL CHARACTERISTICS**



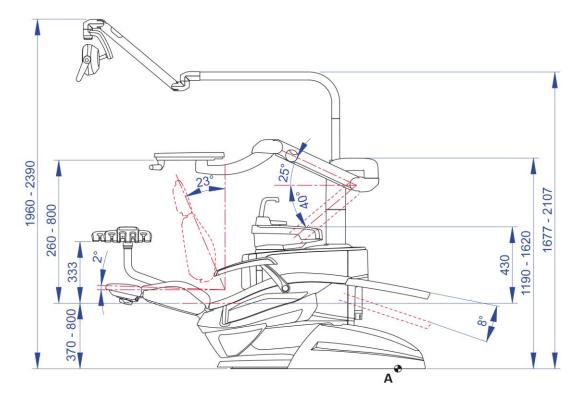
2175 360 165° 315° 29° 940 Ø 865 790 154° Loe na 630 **F1** A 220 335 F2 110 E 205 175 485 805 355 2170

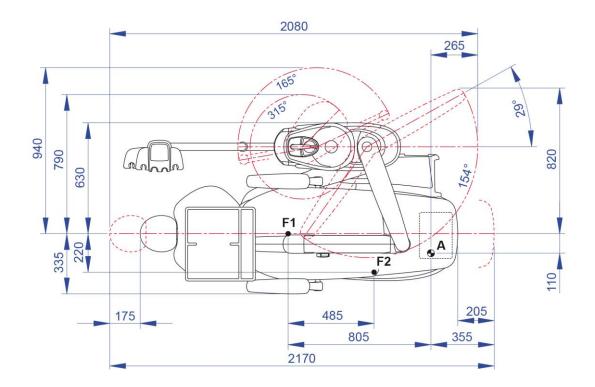
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## 11.3. SKEMA 5 ORTHO DIMENSIONAL CHARACTERISTICS

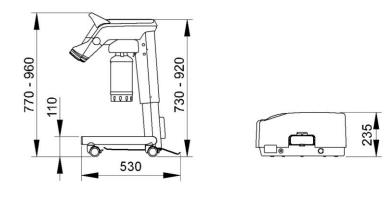


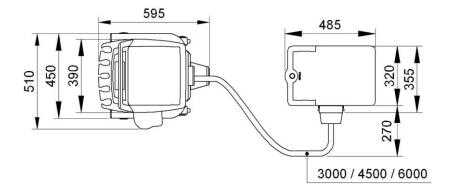






## 11.4. DIMENSIONAL FEATURES OF SURGICAL SINGLE CART









## 12. DENTAL UNIT MAINTENANCE SCHEDULE

S	Condensate drain cock.	Eliminate condensate from air ducts.	
A			See paragraph 9.2.
	Spray ducts	2-minute flushing of the ducts of the instruments used on the patient (Manual or LONG FLUSHING)	See paragraph 7.5
0	ir-liquid separator canister by CATTANI	Insert inside each suction filter a defoaming tablet.	See paragraph 9.5.
Daily activity start. D	Disposable infection control sheaths.	Apply flexible sheaths and disposable barriers on dental chair and dental unit.	/
In	nstruments.	Lubricate turbine and micromotor handpieces.	See documentation enclosed with instrument.
(if	I.W.B. system f the dental unit was left off for more nan 7 days)	Empty the M.W.B. system water circuit	See paragraph 7.3.
S	Spray ducts.	20-second flushing of the instruments used on the patient (Manual or QUICK FLUSHING)	See paragraph 7.5.
In	nstruments.	Disinfect outside.	See documentation enclosed with instrument.
С	Camera.	Disinfect outside.	See paragraph 5.8.
С	Curing Light.	Disinfect outside.	See paragraph 5.7.
After each S patient.	Suction tubes.	Carry out a STANDARD flushing cycle (if any) or suck in about half a litre of 6% diluted STER 3 PLUS solution with each of the suction tubes used.	See paragraph 9.4.
F	lexible protections.	Sterilize the contaminated flexible protections.	/
D	Disposable barriers.	Replace disposable barriers.	/
D	Dentist's board.	Disinfect the handles	See paragraph 5.
0	Operating light.	Disinfect the handles	See paragraph 8.1.
С	Contaminated surfaces.	Clean surfaces with STER 1 PLUS.	/
S	Spray ducts.	Disinfection of spray water ducts (if the AUTOSTERIL system is fitted).	See paragraph 7.2.
В	Bowl filter.	Clean filter in running water. The content must be disposed of separately.	See paragraph 7.1.
В	Bowl unit.	Clean with commercially-available detergents specific for the material composing it. Do not use acids or abrasive products.	See paragraph 7.1.
В	Bowl drain line.	Pour approximately 1 litre of STER 3 PLUS diluted in a 6% solution,	See paragraph 7.1.
с	Cup spout.	Wash with a specially formulated scale-remover.	See paragraph 7.1.
Daily activity S end.	Suction filter.	Check filter and, in case suction capacity is reduced, change it (code 97461845)	See paragraph 9.3.
s	Suction tubes.	Carry out an automatic flushing cycle (if any) or suck in about half a litre of 6% diluted STER 3 PLUS solution with each of the suction tubes used.	See paragraph 9.4.
s	Suction tube holder terminals.	Sterilize in water steam autoclave.	See paragraph 9.4.
н	lydraulic saliva ejector.	Clean the filter of the saliva ejector terminal.	See paragraph 6.4.
	lexible protections.	Sterilize the present flexible protections.	/
D	Disposable barriers.	Eliminate all used disposable barriers.	/
	Dental unit and chair surfaces.	Clean surfaces with STER 1 PLUS.	/





WHEN	PART	ACTION	REFERENCE PARAGRAPH
	Removable instrument hoses.	Clean with suitable disinfectant in compliance with manufacturer's recommendations. Spray product on disposable soft paper. Do not use acids or abrasive products.	See paragraph 5.
	Spray ducts.	Disinfection of spray water ducts (if the S.S.S. system is installed).	See paragraph 7.2.1.
	Air-liquid separator canister by CATTANI	Clean the separator's container, drain valve and probes.	See paragraph 9.5.
When needed.	METASYS amalgam separator.	Empty separator container.	See documentation enclosed with separator.
	DÜRR amalgam separator.	Empty separator container.	See documentation enclosed with separator.
	Operating light	Clean the front screen and the reflector	See paragraph 8.1.
	Monitor on light pole	Clean surfaces	See documents enclosed with equipment.
	Coated surfaces and upholstery.	Clean with suitable disinfectant in compliance with manufacturer's recommendations. Spray product on disposable soft paper. Do not use acids or abrasive products.	See paragraph 1.4.
Weekly.	Suction tube holder terminals.	Lubricate the O-ring.	See paragraph 9.4.
Monthly.	Turbine return air filter.	Check the filter and replace it if necessary (code 97290014).	See paragraph 9.6.
Yearly.	Dental chair and dental unit.	Contact the Technical Service for general inspection.	/



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