Ancar

DENTAL
INTELLIGENCE
with heart

ANCAR 3200
USER MANUAL

Antoni Carles, S.A.
Volta dels Garrofers, 41-42
Pol. Ind. Els Garrofers
08340-Vilassar de Mar
(Barcelona-SPAIN)

T. (34) 93 754 07 97
F. (34) 93 759 26 04
calidad@ancar-online.com
www.ancar-dental.com

ISO 9001
109037-AQ-IBE

ISO 13485
112630-AQ-IBE

EC Declaration of Conformity (Directive 93/42/EEC)

Manufacturer's Name
ANTONI CARLES, S.A.

With manufacturing and putting together of medical devices license number **2509-PS** granted by the Health Authorities of Spain.

Name of device:
Dental Unit
GMDNS Code: **34991**

Type or Model:
Ancar 3200

Device Class according to the intended use and the criteria of Annex IX of the Directive:
Class I (rule 12)

Scope of Application: **All (including parts and accessories)**

Power Supply: **220-240 V ~ / 50-60 Hz**

This Declaration is based on **Certificates** issued by **DNV**:

#109037-2012-AQ-IBE-ENAC according to **ISO 9001:2008.**
#112630-2012-AQ-IBE-NA according to **ISO 13485:2003.**

We, the undersigned, under our sole responsibility, certify and declare that the medical devices specified above are in conformity with the essential requirements, which are applicable to them, of **RD 1591/09**, transposition to the Spanish law of the directive **93/42/EC** as amended by the directive **2007/47/EC**. We also declare that we comply with the design and construction requirements of the following standards:

EN 1640 :2009	Dentistry. Medical devices for dentistry. Equipment.
EN ISO 7494-1:2011	Dentistry. Dental Units. Part 1. General requirements and test methods.
EN ISO 7494-2:2003	Dentistry. Dental Units. Part 2. Water and air supply.
EN 60601-1:2006 + AC :2010	Medical Electrical Equipment. General requirement for safety.
EN 60601-1-2:2007 + AC :2010	Medical Electrical Equipment. General requirement for safety. Electromagnetic Compatibility – Requirements and tests.
EN ISO 14971 :2012	Medical Devices. Application of Risk Management to Medical Devices.

Authorized Signatory *Stamp, Date*

ANTONI CARLES, S.A.
Pol. Ind. "Els Garrofers
C/Volta dels Garrofers, 41-42.
08340 VILASSAR DE MAR
BARCELONA-SPAIN

Josep Álvarez
Regulatory & Safety Officer

Antoni Carles Bosch
General Manager

November 27, 2013

INDEX

DESCRIPTION PAGE

Thank you for purchasing the dentistry equipment **ANCAR-3200.**

This instruction manual contains information about the dental equipment, its configuration and maintenance.

CE This symbol means the unit is certified under Directive 93/42/EEC (modified in accordance with 2007/47/EC).

Notes

This symbol means **CAUTION**, **PRECAUTION**

Before starting-up the unit you must have read and fully understood the user manual.

Keep this manual in a safe place for future reference, for as long as you use the equipment.

Follow all safety standards.

It is the user's responsibility to keep the unit clean, disinfected and in perfect working order.

1.- WARNINGS

This dental equipment is for the exclusive use of a professional, who should have the appropriate training and be a member of a dental association to practise as a dentist.

This equipment may only be moved by authorised technicians.

The unit must be installed in an environment under controlled conditions, including temperature (+10˚C to +40˚C), humidity (30-75 %) and atmospheric pressure (700 a 1060 hPa), free from dust and condensation and protected from direct sunlight.

The electrical circuit at the premises where the unit is to be installed must satisfy the provisions in standard IEC 601.1 regarding protection against electric shock for class I equipment.

Antoni Carles, S.A. reserves the right to make any improvements or modifications to the dental unit without prior warning.

The unit must be used in accordance with the instructions of use.

Under Directive 93/42/EEC (modified in accordance with 2007/47/EC), the dental unit and orthodontic chair manufactured by **Antoni Carles, S.A.** are class IIa equipment. It is absolutely prohibited to install any class IIb or III dental instrument, e.g. surgical lasers, electronic scalpels, X-rays or electric cauterizers. Only class I or IIa equipment may be installed, in compliance with the provisions in the aforementioned Directive and standardised regulations EN60601-1, EN60601-1-2.

2.- GUARANTEE

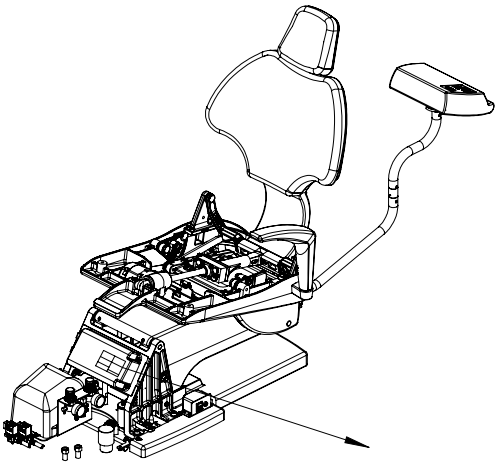
The device comes with a Certificate of Guarantee. If you do not receive this, ask your dealer directly. The Certificate of Guarantee must be completed and returned to the manufacturer **(Antoni Carles, S.A.) within 8 days** of delivery of the device.

The guarantee is only valid if the device has been used correctly and installed by an authorised technician.

Moreover, to comply with Health Equipment traceability in accordance with Directive 93/42/EEC (modified in accordance with 2007/47/EC), you must also return the installation form.

3.- IDENTIFICATION

The identification tag, containing technical information required for connection, can be found close to the base on the front of the chair, and is visible when the outer cover is removed (Fig. 1)



4.- PRECAUTIONS

The unit should be installed in a bright place away from corridors or passageways, and should have adequate room to accommodate both the patient and the user.

The dental chair should be fixed to the floor to guarantee stability.

Before moving the chair, the operator (dentist, user) must ensure that there is no-one (patient, guests, children) in the vicinity. Be aware of people around the backrest area and around the auxiliary instrument tray.

After using the unit, switch off all instruments as well as the unit itself, which should remain switched off at the end of each working day. If the unit is to be out of use for a long period of time, also disconnect it from the mains supply and close the main air and water inlet taps.

Make sure the general power switch underneath the instrument tray is turned off if the equipment is to be left without staff supervision. It will disconnect the electro valves and prevent the water entry channelling conducts from having to withstand a constant pressure.

The air and water inlets must not exceed a pressure of 10.3 Bar, nor should the pipes be exposed to temperatures exceeding 46˚C, to avoid system faults and damage to property.

To prolong the working life of the lifting unit components, take care not to overload the chair.

It is advisable not to use mobile telephones in the proximity of the working unit.

This equipment is not designed to work in operating theatres.

ENVIRONMENTAL PROTECTION

All packaging materials are produced in respect for the environment and are fully recyclable: wooden pallets, cardboard, plastic bags and, bubble-wrap. Collecting used materials helps collection and recycling, and reduces waste material.

Antoni Carles, S.A., is obliged to satisfy the objectives set by Community Directives 2002/95/EC and 2002/96/EC.

This symbol is only applicable for member countries of the European Union.

In order to avoid potential negative consequences on the environment and possibly on human health, this instrument must be withdrawn (i) in member countries of the EU – in accordance with WEEE (Electric and Electronic Material Waste Directive), and (ii) for other countries in accordance with local provisions and recycling laws.

EMC

The Sd-150 dental **ANCAR-3200** conforms to the basic requirements of Directive 93/42/EEC (modified in accordance with 2007/47/EC), concerning medical devices, and complies with the design and construction requirements contained in Standard EN60601-1-2 regarding the safety of Electromagnetic Compatibility and Electrical Medical Equipment, causing no electromagnetic disturbances and complying with immunity standards.

ENVIRONMENTAL CONDITIONS

While it is in its packaging for transport and storage, the equipment can withstand being exposed for no longer than 15 weeks to environmental conditions that do not exceed:

a) ambient temperature from -20ºC to +50ºC.
b) a relative humidity of 10% to 100%, including condensation.
c) an atmospheric pressure of 500hPa to 1060 hPa (from 500 mbar to 1060mbar).

- Functioning conditions:

d) ambient temperature from +10ºC to +40ºC.
e) a relative humidity of 30% to 75%, including condensation.
f) an atmospheric pressure of 700hPa to 1060 hPa (from 700 mbar to 1060mbar).

5.- CLAUSES

Antoni Carles, S.A. will not assume responsibility for damage caused by fire, natural disasters, third party activities or other accidents caused by operator negligence or misuse, or from using the equipment under unusual conditions.

Antoni Carles, S.A. will not assume responsibility for damage deriving from the improper use of equipment, causing a loss of business or loss of earnings.

Antoni Carles, S.A. will not assume responsibility for results of diagnoses made by a doctor using this equipment.

6.- TECHNICAL FEATURES

6.1.- Chair

Ergonomic design for the patient.

Dental chair with silent, automatic and highly reliable movement.

Microprocessor-controlled movements:
- Automatic chair return movement.
- 3 programmable chair settings.

High quality, hygienic anatomic upholstery

Safe movement of the base and backrest of the chair, which is raised upwards until locked in place.

Height-adjustable, folding headrest.

Includes Trendelenburg position.

6.2.- Dental Unit

Electro pneumatic unit with support tray fitted on the rear of the chair giving access to the patient from both the right and the left for the doctor to work.

Junction box built into the chair.

Instrument tray for up to 4 elements. Includes 3F syringe plus 2 instruments (electric micromotor with/without light, and turbine with/without light) and suction.

Safety system to block the chair movements when it detects the activation for work with the adjuster pedal with the instruments. Built-in as standard in the remaining safety device activations:
- Instrument tray arm (rise and fall blocking).
- Lower contact articulation of instrument tray arm to chair.
- Chair base and back.
- Manual activation of the keyboard or pedal cancels automatic movement under way.

Lantern effect in the turbine with light on choosing the instrument, without using the pedal.

Cannula support with housing for small volume surgical suction.

Command on the instrument tray.

The unit conforms to the basic requirements applied by Directive 93/42/EEC on medical devices, complies with the design and construction requirements contained in Standards EN60601-1 and EN60601-1-2 regarding the safety of Electromagnetic Compatibility and Electrical Medical Equipment, and conforms to ISO standard 14971, Risk Management analysis.

7.- DIMENSIONS AND TRANSPORTATION

The dental unit is suitably packaged and protected. (Fig. 2)

One box contains the palette-held dentistry chair, the pedal unit, upholstery and front cover. In a second box, the instrument support arm unit.

It is essential that none of the boxes are knocked when in transit, and under no circumstances must they fall to the floor. Great care should be taken when moving the equipment; we recommend it be transported by technicians authorised by **Antoni Carles, S.A.**

Before assembling the unit, a technician, along with yourself and the authorised member of staff on-site should determine its best location with regard to comfort and ergonomics.

If any assembled unit has to be moved, set the chair with its seat as low as possible and the back raised, and make sure the instrument tray is retracted as far as possible on the chair at all times.

Once in its new position, remember to secure the chair to the floor.

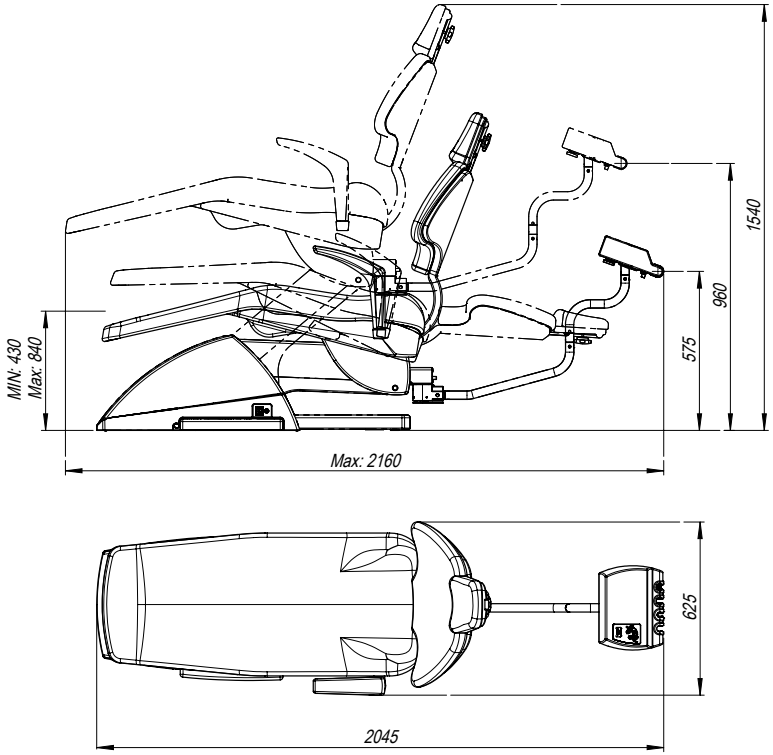


Fig. 2

8.- ANCAR-3000 DENTAL UNIT COMPOSITION (Figure 3)

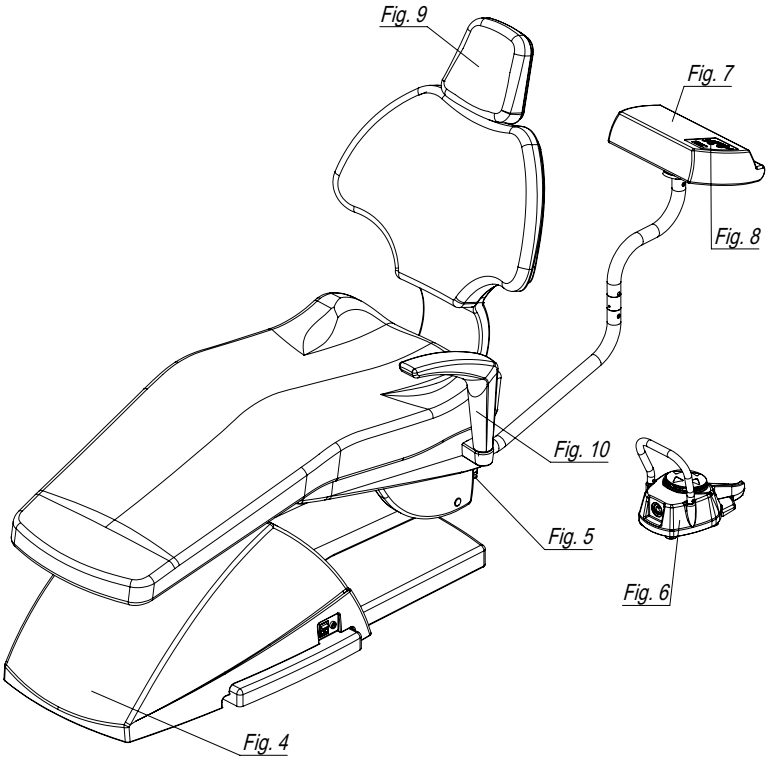


Fig. 3

8.1.- Circuit box

The circuit box contains all points for connecting the dental unit to the clinic's power supply, as well as controls for adjusting the air and water supply. Regulator directional movement conforms to Standard UNE20128.

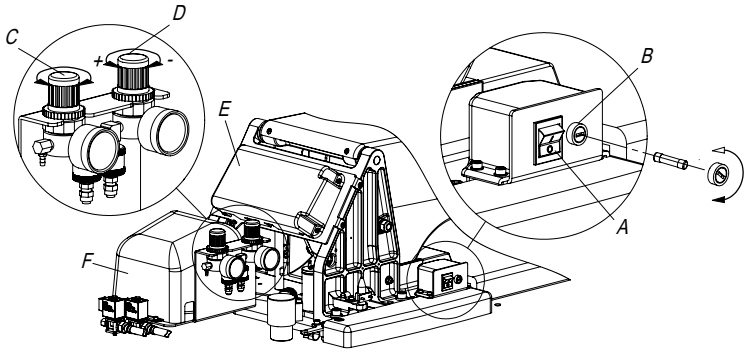


Fig. 4

View of the chair base (front):

- **A.** General power switch. Up ("I"), on; Down ("O"), off. Pilot light.
- **B.** General mains fuse, rating T6.3A/250V, type 5x20mm.
  Fuse replacement should be supervised by an authorised technician.
- **C.** Air inlet pressure control. Fitted with a solid particle filter. Check around once per month.
- **D.** Water inlet pressure control. Fitted with a solid particle filter. Check around once per month.
- **E.** Movement electronic card cover.
- **F.** Connection electronic card cover.

Note: when activating the general power switch ("A"), the connection panel will perform a function test, producing an audible beeping sound. If you do not hear this sound, switch off the unit and contact your technical service provider.

The surgical suction socket is on the back of the chair. It includes a changeable filter with the anti-foam tablets. The suction of a glass of clean water is recommended after each use, cleaning the filter at the end of each day.

The suction filter only works with wet suction

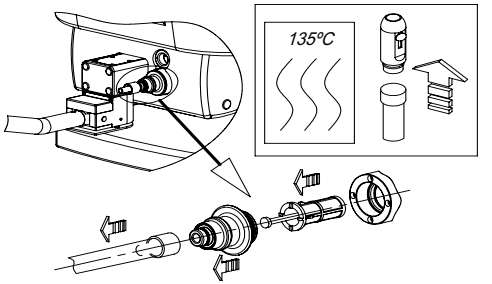


Fig. 5

8.2.- Pneumatic pedal

It proportionally regulates the optional instruments on the instrument tray: micromotor and turbine.

It controls the electric micromotor rotation speed and turbine power by activating the trigger (**B**); with air only, with water only, or air with water, using lever-operated spray function (**A**). The pedal-controlled electric micromotor has a speed control indicator, as it allows very sensitive and progressive movement.

Lever-operated chip blower function (**A**) when the lever (**B**) is in the return position.

Optional instrument hygiene: turbines and micromotors, expelling every drop of water using an automatic air blower, while the chip valve is delayed by releasing the control pedal.

Safe movement of all optional instrument tray items: by adjusting the control lever the chair is locked in place, or it can be secured in any position.

PEDAL FUNCTIONS (Fig. 5)

- **A.** Chip blower control button/lever. Short-burst air blower.
- **B.** Handle for starting and adjusting the instrument selected on the tray. Pressing the trigger (B): air only, no water.
  Pressing the trigger (B) and lever (A): water and air, spray function.
- **C.** Manual back raising button.
- **D.** Manual seat lowering button.
- **T.** Manual back lowering button.
- **F.** Manual seat raising button.

Safety:
To block any button-activated memory, press the control pedal.
As long as the adjustment pedal is working with an instrument, all of the chair movements are blocked.
This pedal may optionally admit automatic resetting (D), and any other of the 3 memories available (C, E and F). By default, none are included. They would all be activated with a single press.

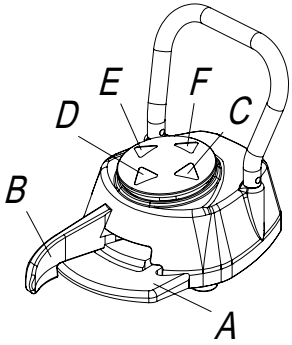


Fig. 6

8.3.- Instrument tray

Designed ergonomically to facilitate the dentist's work, it has the following principal characteristics:

- It has a control panel.
- Total capacity 4 instruments.
- Thanks to the smooth, rounded, non-porous shape of the instrument tray, it is easily accessible for cleaning and disinfecting.
- Turbine lamp with pedal-free operation.
- Display showing instrument water flow, measured through regulators installed beneath the instrument tray.

If the turbines or micro motors should fail to perform the spray function, make sure these adjusters open by turning anticlockwise.

A. Control panel.
1. Default turbine working position
2. Default micro motor working position.
3. Default working position for the 3F articulated syringe. The 3-function syringe (air, water and spray) is an independent instrument that does not depend on the adjustment pedal.
4. Suction location.
B. Electric micromotor work mode selector: normal or reduced mode. The 0 to 4,000 rpm range is thus distinguished from the general (0 to 40.00 rpm).
C. Micromotor directional selector.
D. Removable tank for the micromotor and turbine lubrication oil return filter. Check regularly (at least once a month) and replace the cotton.
E. Water regulators (E1, E2), aligned with each of the instruments.

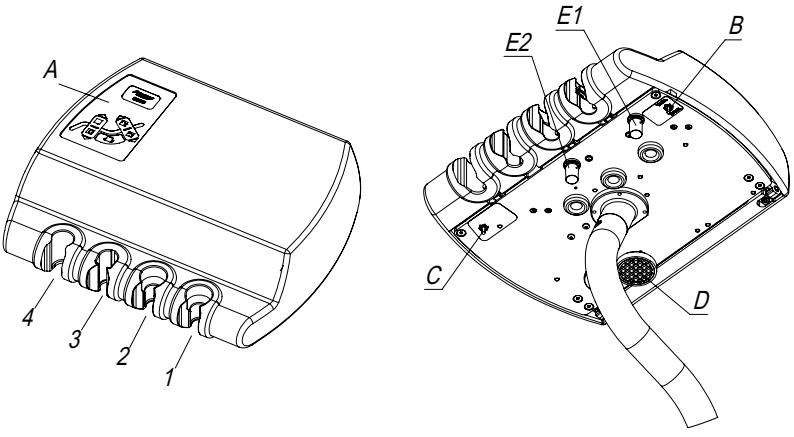


Fig. 7

The tube support is mounted on an arm with a large range of movement to find the desired position. The surgical suction will start the suction motor when the cannula is lifted.

The cannulae can be sterilised, they can go in the autoclave, except for the internal rubber. If there is no continuous suction system, leave a time for the operation system to be emptied.

8.4.- Control panel

CHAIR MOVEMENT FUNCTIONS

- Safety for movements involved in activating instruments using the adjustment pedal
- Movement activation functions in parallel with the adjustment pedal (in which there are no automatic movements, just optional configurations).

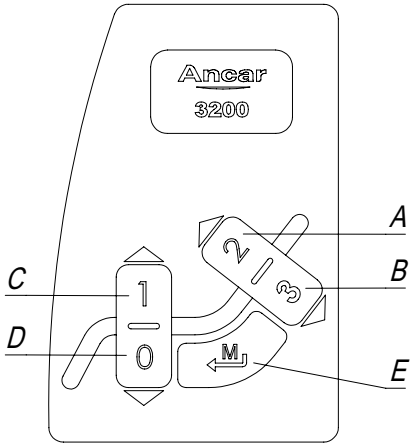


Fig. 8

A. Pressed continuously: Backrest return movement.
Pressed once: Automatic movement to memory position 2.
B. Pressed continuously: Backrest recline movement.
Pressed once: Automatic movement to memory position 3.
C. Pressed continuously: Manual chair raising.
Pressed once: Automatic movement to memory position 1.
D. Pressed continuously: Manual chair lowering.
Pressed once: Automatic reset movement.
E. Chair movement positional memory storage button (settings 1, 2 and 3).
First press reset. Set the chair to the desired position using the manual function keys. Hold down the “Enter” button (“**E**”) and press any of the three positions (1, 2, or 3), wait until you hear the OK “beep” to confirm. Release the “Enter” button (“**E**”).

8.5.- Headrest

Thanks to its articulated movement, this head support allows the patient's head to be positioned easily and ideally, according to the treatment required. It can be easily adjusted lengthways, as shown in Fig. 12.

OPERATION

- The lengthways adjustment is easily connected. The piece is gripped firmly with the position held internally.
- By turning the piece "**A**" you can achieve the desired inclination. Once the headrest is set in the optimal position, lock the mechanism by turning lever "**A**" anticlockwise.

The head support upholstery can be replaced simply by removing it from the base, allowing comfortable maintenance.

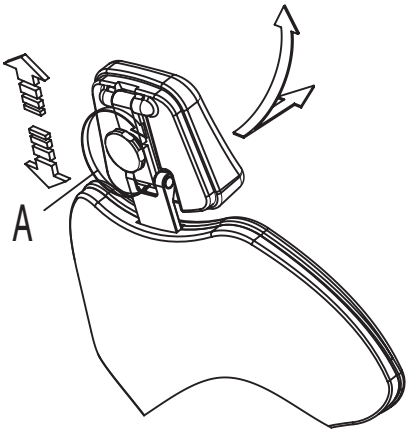
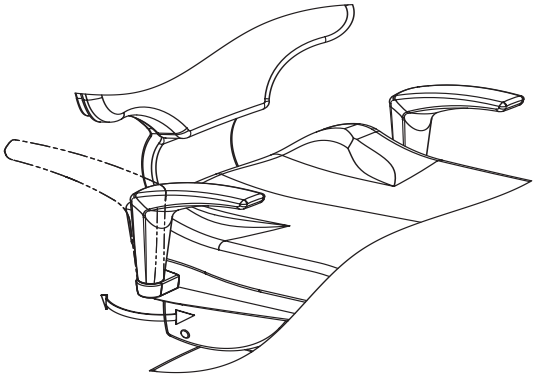


Fig. 9

8.6.- Optional armrest

The unit can be fitted with left and right armrests.

To turn the armrest, first release it by lifting it upwards. Then turn it and set it to the desired position, where it is locked in place. Repeat this action to leave it in the closed position. (Fig. 13)



9.- SAFETY MOVEMENTS

- The dental chair includes mechanical safety stops for the chair and backrest, ensuring correct manoeuvering and positioning.
- Motor overload control through integrated heat sensors. Should the heat sensors go off, wait 15 minutes for them to cool.
- The backrest safety feature, in the event of pressure or knocks against other objects during manual or automatic loweringrecline, suspends all chair movement (seat and backrest), before lifting raising it a few centimeters.
- The base safety feature, in the event of pressure or knocks against other objects during manual or automatic reclining, suspends all chair movement (seat and backrest), before lifting raising it a few centimeters.
- If the arm is pressed or an obstacle is encountered when raising or lowering in automatic or manual, the cannula safety device stops all the chair movements (seat and back).
- Safety device in the base of the instrument arm, so that in lowering, any pressure against the plate by contact on the bottom with an obstacle stops all movements.
- The control pedal safety blocks all chair movements of the chair (seat and backrest) once the control lever is activated, allowing the user to work in the patient's oral cavity in complete safety. If the seat is moving, it can be stopped simply by pressing the lever to active the safety function. If only the instrument has been selected, the pedal still responds to the movements.
- Safety device in the adjustment pedal, no automatic movements can be entered, thus preventing unwanted activations due to the sensitivity of the three-dimensional movement button, unless the memories have been set up.
- If the chair moves to a memorized location, pressing any directional key on the movement keypad (main and auxiliary) safety will stop the unit.

When a safety device is activated, the chair moves in the opposite direction to the seat and back motor to release the trapped component.

10.- CLEANING AND STERILISING

When cleaning your dental unit, it is essential that you use neutral products. Cleaning products with high chemical content can damage plastic parts or upholstery. When cleaning, take care not to wet the equipment too much, as its interior is made up of electrical components. Various specialists in the dental hygiene industry offer a wide range of cleaning products for achieving optimum results.

ANCAR thoroughly and systematically cleans your equipment, prior to its dispatch, with Magnolia Spray ECO-JET1 (Cattani Group).

For cleaning and disinfecting the different parts of the system, please check:
- Appendix 1, "Cleaning other parts of the unit"
- Appendix 2, "3F / 6F Syringe Maintenance".

STERILISING AND AUTOCLAVE.

Hand instruments should be sterilised in the autoclave, at an average temperature of 135˚C, though we recommend that you follow the instructions of the instrument manufacturer.
The cannulae and cannula holders can also be sterilised, except for the internal rubber. If not fitted with a continuous suction system, the separator system should be left for a short emptying period.
Proper use and maintenance of the equipment will prolong its working life.

11.- TECHNICAL DATA

Voltage	220-240 V~
Frequency	50 Hz
Air pressure	5.5 Bar
Water pressure	3 Bar
Power	900 W
Electrical protection type	I
Type of operation	Intermittent
Maximum load (patient)	160 Kg.
Electric micro-motor instrument	24 V dc / 65 W
Light instruments	Bulbs-LEDs, 3–3.5v/ 2.5 W
93/42/CEE type unit	Class I
Type of insulation	Type B
Net/gross weight of the unit	186 / 226 kg.
Type of dental unit	Electro pneumatic
Type of installation	Permanent
Main fuse	T 6.3A / L / 250V
Movements Chart Fuse, 24V cable	T 32 mA / L / 250V
Primary transform fuse, 9015093 PCB	TT 2.5A / L / 250V
17 V ac (ye/ye) protection	Polyswitch RUE600
17 V ac (re/re) protection	Polyswitch RUE600+ RUE185
24 V ac outputs	2 x circuit box
Suction connection	500W / 230V. 20A/250V relay
AUX contact connections chart free power	Max 250V/5A
Main electro-valves	24V ac

APPENDIX 1. CLEANING AND DISINFECTING PARTS OF THE UNIT.

Cleaning and disinfecting

Always disconnect the unit from the mains before carrying out any procedures.

Do not wet or flood the unit with water.

Do not use domestic detergents or disinfecting foams.

Cleaning upholstered areas

Clean periodically with a soapy solution.

Cleaning polyurethane areas (unit base cover, upholstery support, lifting mechanism covers)

Polyurethane areas must be cleaned using a cloth soaked in soapy water.

It is recommended to avoid using concentrates, detergents and strong abrasives to remove difficult stains.

Clean regularly.

Cleaning and disinfecting exterior metal parts (excluding instruments)

Use any product with an antimicrobial, fungicidal, sporicidal or virucidal action that is compatible with the medical industry.

Check manufacturer instructions.

Cleaning and disinfecting the instrument tray and hoses.

Cleaning and disinfecting: clean after each treatment using antimicrobial, fungicidal, virucidal and sporicidal disinfectant.

ANCAR recommends the use of the BODE X-WIPES reloadable wet wipe dispenser for professional washing and disinfection. Suitable for all BODE surface disinfectants at concentrations that take effect within 1 hour.

APPENDIX 2. MINILIGHT SYRINGE (LUZZANI)

GENERAL

The Minilight syringe is an instrument designed exclusively for dental use, its function being to introduce air and water (individually or simultaneously, at either room or body temperature) into the area of operation to keep it continuously clean and dry.

GENERAL CHARACTERISTICS

The Minilight syringe has been designed using state of the art ergonomics to facilitate use and to allow rapid cleaning and sterilizationsterilisation. Both the tip and the outer grip can be easily removed to allow the instrument to be completely disinfected and sterilised in the autoclave at 135°C. Grips are available in different shapes and colours, according to the dentist's preferences: straight or L-shaped. Furthermore, the air and water may be heated to body temperature, to avoid patient irritation from using colder room temperature air or water.

MODELS

The models differ according to the number of features available:

- 3F water/air/cold spray
- 5 F cold water/hot and cold air/hot and cold spray
- 6F hot and cold water/air/spray
- Air or water only
- L with Light

The Minilight syringe version is shown above. The handles can be interchanged on all versions: technopolymer curve or straight stainless steel.

CE MARKING

All products carry CE marking.

MANUFACTURER BATCH

Each product can be traced by a serial number located on the bottom, which identifies the exact batch of production. This number can be used to find out the date of manufacture, in relation to the control panel.

GUARANTEE

The product is guaranteed by our company for 12 months after delivery. Any unauthorised modification or handling will automatically void the guarantee. The company therefore accepts no responsibility for damages to people, animals or other objects due to misuse of the equipment. For any disputes, the competent authority is the Milan tribunal, Italy.

TECHNICAL FEATURES

Type B, insulation class II, intermittent function: 10 seconds ON, 20 seconds OFF.

ITEM		6F	5F	3F
SUPPLY VOLTAGE	VCA	24	24	***
CURRENT CONSUMPTION	A	4.3	0.7	***
MAX. ELECTRIC. POWER	W	103	0.7	***
MAX. WATER PRESSURE	BAR	2.5	2.5	2.5
MAX. AIR PRESSURE	BAR	4.5	4.5	4.5
MAX. AIR FLOW	Nl/min	10	10	10
MAX. WATER FLOW	Cc/min	110	110	110

INSTALLATION

The unit may only be connected by an Antoni Carles-authorised technician.

NORMAL USE

- To introduce cold water into the area of operation, press the left button on the handle.
- To introduce cold air into the area of operation, press the right button on the handle.
- To introduce a cold air and water spray, press both buttons on the handle simultaneously.
- To introduce warm water into the area of operation, turn the switch on the base of the handle to the right (the green indicator will light up) and press the left button on the handle (only on models 6F and L).
- To introduce warm air into the area of operation, turn the switch on the base of the handle to the right and press the right button on the handle (only on models 6F and L).
- To introduce warm a water and air spray into the area of operation, turn the switch on the base of the handle to the right and press the two buttons on the handle simultaneously (only on models 5F, 6F and L).

Note: The function of the switch is to select between warm and cold functions. The water or air is heated instantaneously upon use. For this reason, the handle can be left constantly in the "on" position without causing any problems or danger.

CLEANING AND STERILISING

After each intervention, and to maximise hygiene standards, the syringe can be cleaned and sterilised. This is done through the following phases:

- Remove the tip (by unscrewing it at the mouth-tip) and/or the complete handle (pressing the button on the handle bottom upwards).
- Clean with a cloth to remove any dirt or stains.
- Set the autoclave with steam to 135ºC for at least 3 minutes.

MAINTENANCE

The unit requires no specific maintenance, except for the regular cleaning and sterilization described above. Avoid all kinds of lubrication, since this can cause irreparable damage to the syringe.

SURFACES AND COMPONENTS

The product contains no dangerous, toxic or harmful components, nor does it come into contact with any such products during manufacture.

APPENDIX 3. SAFETY OBSERVATIONS

GENERAL PRECAUTIONS

Read all necessary manuals.

Keep all manuals – dental unit, chair, instruments and additional kits – in a safe place for future reference.

Before starting up the unit, read all appendices in this manual.

Upon first start-up: carry out a thorough clean of the water channels by passing a solution of water and disinfectant through all water pipes connected to the instruments and water unit.

Disconnect the unit from the mains, turning off the general power switch at the end of each working day.

If the unit is to be left unused for a long period of time, close the main water and air taps and disconnect the unit from the electrical supply.

Do not replace fuses yourself. Contact an Antoni Carles-authorised technician through our Sales Department Department.

Hire an authorised maintenance service. This will give you greater safety and prolong the life of the unit. Check with our Sales Dept. Department.

Regularly check for water or air leaks in the dental unit circuit box, and make sure the area is kept clean and free from humidity, rust or electrolysis.

Do not use the unit to support or hold furniture or other materials. The unit should only be used by qualified personnel.

ELECTRICAL SAFETY MEASURES

It is advisable not to use mobile phones in proximity of the dental unit. Observe regular hospital standards.

In the event of an overload in the instrument line, the built-in thermal protection in the 24VCA line may have suspended operation of the unit. Wait 15 minutes for it to reset. Should the problem persist, call the authorised technical service line.

In the event of an overload in the chair, the thermal protection built into one of the motors may have been triggered and suspended all operations. Wait 15 minutes for it to reset. Should the problem persist, call the authorised technical service line.

Do not add additional multiple intake bases or extensions to intakes available on electronic charts.

PRECAUTIONS ON ELECTROMAGNETIC INTERFERENCES

Electronically-controlled instruments may harm patients fitted with pacemakers and/or hearing aids due to possible electromagnetic interferences.

The patient may be at risk from the approximate use of electronic scalpels or other electric/electronic equipment which may generate electromagnetic or other types of interference, causing the unit to malfunction. It is advisable to switch off the unit at the mains before using such equipment.

Risk of interference with other separate equipment (such as an implant motor) Disconnect the dental unit power supply to prevent any movements indirectly caused through faults and/or through accidental activation of the controls.

PRECAUTIONS ON FLAMMABLE ANAESTHETIC MIXTURES.

Do not use the unit/chair in proximity of mixtures of flammable anaesthetic gas with oxygen or nitrogen protoxide.

Antoni Carles, S.A.
Volta dels Garrofers, 41-42
Ind. Est. Els Garrofers
08340 - Vilassar del Mar
Barcelona (SPAIN)

T. (34) 93 754 07 97
F. (34) 93 759 26 04
ancar@ancar-online.com
www.ancar-online.com