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Drawings (*)
Electrical connection diagrams (*)

(*) Illustrations and connection diagrams at end of booklet.

SYMBOLS USED IN THIS MANUAL

Danger



The paragraphs marked with this symbol contain instructions which must be observed carefully to avoid damage to the device, the operator and the patient.

Warnings



These instructions advise that attention should be paid to avoid situations which could damage the device.

Prohibition



This icon shows what to avoid doing to avoid damage to the device.

Suggestions



This icon signals information permitting use of the device in the most effective manner.

SAFETY RULES

Observe all the instructions set forth in this manual.



The dental lamp is used to illuminate the operating area and should be used in a dental office by medical personnel only.

- The device should be cleaned before use (see para. 'Cleaning').
- The lamp packing is designed to adequately protect it from penetration of external agents.
- The device should be installed by qualified personnel only.
- The dental lamp should be installed on a specific power control device such as a dental unit or with an electrical system meeting IEC standard 364-1 and 'national rules for the installation of electrical systems in rooms assigned to medical use'.



The device should be installed with a double-pole switch for the net separation (Conforms to publication IEC 328)



Make sure the power supply shown on the data plate is the same as that of the mains.

- Do not perform any maintenance on the lamp when the power is on. Disconnect the power cord from the mains before repairing.



Do not insert into the slots in the lamp head objects or tools which might touch parts under voltage.

- Inadequate performance of the device does not endanger the patient in any way



Separate materials according to their typology (ex. ferrous, rubber, plastic etc.). For the material scrapping and disposal follow the standards in force in your country or apply to specialized and authorized companies. Do not leave small parts of the device unattended or within the range of children because dangerous.

- Arm designed load 5 Kg



Do not perform maintenance or replace parts other than as set forth in this manual. Any work not set forth herein could affect the safety designed into the device.

- Perform only the work described in this manual. In all other cases apply to our service department.



Doctor should use disposal covers on light handles or assure sterilisation in all versions where it is possible to detach handles.



In its original packing the unit can be transported or kept in storage for 15 weeks if the following environmental conditions are assured.

- ⇒ **Surrounding temperature from -20°C to +70°C.**
- ⇒ **Relative humidity from 10% to 90%.**
- ⇒ **Atmospheric pressure from 500 to 1060 mbar.**

FEATURES

The “edi” Lamp is supplied in the following models.

STANDARD

- *S/TS Lamp (with or without Transformer) with fixed handle and mechanical switch.*
- *S/TS Lamp (with or without Transformer) ceiling model*
- *Head and accessories in the FARO standard colors.*

VARIANTS

- *With detachable handle for sterilization*
- *With “infrared sensor” switch*

APPLICATIONS

- *Can be mounted on dental unit, wall, floor or ceiling*
- **Fan** incorporated in head to hold temperature within range ensuring compliance with safety requirements of Std 60601-1.
- **Light source** consisting of a halogen bulb whose light is reflected by a parabolic reflector.
- **The parabolic reflecting** surface is glass with dichroic treatment and has a geometry assuring a regular, uniform light spot at all levels of intensity. The reflector is designed with approximately 600 facets to distribute light uniformly in the operating area without shadows or obscuration by the operator.
- **Adjusting light intensity** by means of an adjustable screen. This system keeps color temperature of 5000 K constant.
- **Front Screen** protects operator and patient from any ultraviolet radiation.
- **Detachable Handles** allow sterilization.
- **Infrared sensor** permits to switch On/Off the lamp without direct contact to avoid the risk of cross contamination
- **Maintenance** is facilitated by application of new technology allowing for safety, human engineering and hygiene requirements.

INSTALLATION

Mod. S/TS “edi” Dental Lamp

Make sure all the components listed below are included in the package received.

- S/TS Dental Lamp (in the requested version)
- Wrench for removing Front Screen
- Instruction Manual



**THIS DEVICE SHOULD BE INSTALLED BY
SPECIALIZED TECHNICIANS**



**POWER SHOULD ALWAYS BE CUT OFF DURING
INSTALLATION.**

- The Lamp with Transformer is to be powered directly by mains voltage with the same characteristics shown on the data plate or in the specifications given in the Manual.
- Make sure the Line Switch is in conformity with the surface distances by air as specified in IEC Publication 328
- The lamp without transformer is to be powered with low voltage alternate current by using a safety transformer with an outlet at 17V a.c. 6A and with thermal protection and/or secondary circuit shielded with a proper fuse (T6.3A)

OPERATING INSTRUCTIONS

Mod. S/TS “edi” Dental Lamp

Use of the lamp is limited to the following operations.

- **Turning On**

⇒ Mechanical. Use Switch “A”

 ON  OFF (fig.1)

⇒ By Sensor. Place hand within not more than 3 cm distance of Sensor “B”(fig 2)

 • ON / OFF

- **Adjusting Light Intensity**

⇒ Use Wheel “C” to adjust light intensity (fig 3).

Assembling forked lower handle (on request)

To insert forked lower handle proceed as follows:

- Remove front screen (fig.4 pag.20)
- Remove plugs by acting on points “M” (fig.10)
- Insert forked lower handle by pressing on points “L” (fig.9).
Release it when fitted in the holes.



**PLUGS OR FORKED LOWER HANDLE SHOULD BE ALWAYS
FITTED IN THE HEAD WHILE LAMP IS WORKING**



FOR FIXED HANDLES USE DISPOSAL COVER

MAINTENANCE

Replacing Front Screen (fig 4)

To remove Front Screen from Lamp proceed as follows:

- Turn screw on side of Screen counterclockwise using Tool supplied.
- Pull out Screen.

To reinstall Front Screen perform above operations in reverse.

Replacing Bulb (fig 5/6)

(mod.Halogen Lamp GY 6.35 17 V 95 W)

To remove Bulb proceed as follows:

- Remove Front Screen (fig 4).
- Pull out Screen while pressing sides (fig 5).
- Withdraw Bulb “D” by pulling it upward (fig 6).
- Fit new Bulb. It must be as specified in the Data Sheet or on Data Plate.



The new Bulb should not be touched with the hands; handle it with the protective shell. If it is accidentally touched with the fingers wipe away the finger prints with cotton soaked in alcohol.

Replacing Fuse in Transformer model (fig 7).

The Lamp with Transformer has two Fuses of the same power. To replace them proceed as follows.

- Make sure Power Cord is disconnected.
- Unscrew Plugs “E” located on Transformer case.
- Withdraw Fuses, check for burn out, replace if necessary.



New Fuses must have same rating as shown on data plate and in Data Sheet.

CLEANING



Sterilizable Handles with standard cycles 121°/134° C, according to Official Pharmacopeia

135°C
{ } { }

To remove sterilizable Handles proceed as follows.

Side Handle open (fig 8)

Turn knob “G” counterclockwise and pull until completely unhooked. To fit, reverse the operation.

Forked lower Handle (fig 9)

Press points “L”, then pull out. To fit, reverse the operation.

Cleaning Front Screen and Parabolic Reflector

To remove Screen proceed as explained in **Replacing Front Screen** on page 20 fig. 4. Cleaning should be done with a soft cloth moistened with a glass-cleaning liquid



Abrasive or detergent materials such as alcohol, trichloroethylene, gasoline (petrol), turpentine or the like should not be used on any part of the Lamp.

TROUBLESHOOTING

The Lamp does not light.

- Make sure Electric Power Cord is correctly plugged in.
- Check condition of Fuses.
- Check condition of Bulb.
- If the problem is not solved, call our Service Department.

Light intensity is considerably dimmed

- Clean Parabolic Reflector or Front Screen with soft cloth moistened in a glass-cleaning detergent.
- If light remains dim, call our Service Department.

DATA SHEETS

| | |
|--|------------------------|
| Input voltage (with transformer) | 230 V - 50/60Hz |
| Input voltage (without transformer) | 17 V - 50/60Hz |
| Power absorbed | 95 W |
| Input current, max,(with transformer) | 0,5 A |
| Input current, max, (without transformer) | 5,6 A |
| Transformer | 230 V - 17 V |
| Fuses (with transformer) | T 1,6 A |
| Halogen Bulb (●) | 17 V - 95 W |
| (mod.Halogen Lamp GY 6.35) | |
| Spot size (*) | 60 mm x 180 mm |
| Lux (*) | 25000 |
| Color temperature | 5000 K |
| Highest accessible-surface temperature with normal use (plastic materials) | < 85°C |
| Level noise | < 40 dB (A) |

Protection against electrical dangers : **Class II device**

Device for non -stop use

Normal use condition: **Temperature from 10°C to 40°C**

Relative humidity from 30 to 75%

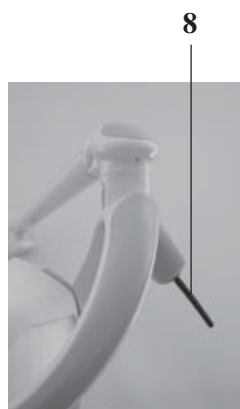
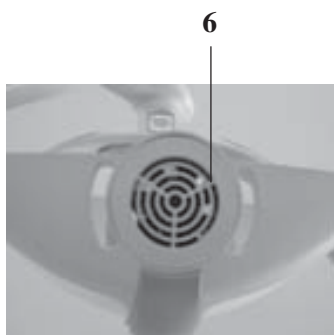
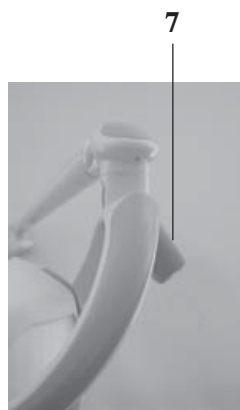
Atmospheric pressure from 700 to 1060 mbar

(●) Factory recommended (alternately allowed 24 V-150 W)

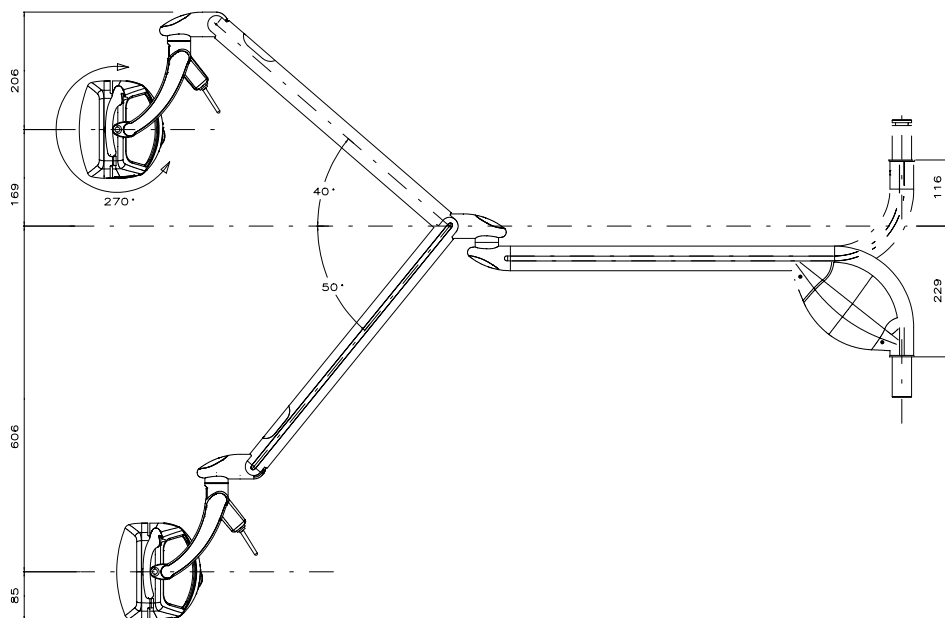
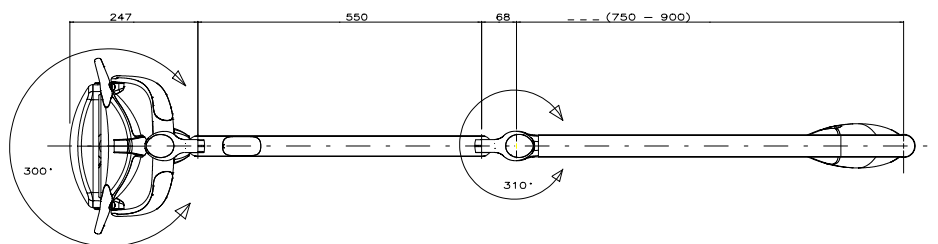
(*) In conformity with ISO 9680

- DESCRIZIONI DELLE PARTI - DESCRIPTIONS OF PARTS
- DESCRIPTION DES PARTIES - BESCHREIBUNG DER TEILE
- DESCRIPCIÓN DE LAS PIEZAS

- 1-** Fusibili-Fuse-Fusible-Sicherung-Fusible
- 2-** Trasformatore-Transformer-Transformateur-Transformator-Transformador
- 3-** Maniglia fissa -Fixed Handle-Poignée fixe-Feststehender Griff-Maneta fija
- 4-5-** Maniglia staccabile-Detachable Handle-Poignée détachable-Abnehmbarer Griff-Maneta desmontable
- 6-** Microventilatore-Fan-Microventilateur-Mikrolüfter-Microventilador
- 7-** Interruttore a sensore-Sensor switch-Interrupteur à capteur-Fühlerschalter-Interruttore a sensor
- 8 -** Interruttore-Switch-Interrupteur-Schalter-Interrupctor



- **INGOMBRI ED ESCURSIONI**
- **SPACE OCCUPIED AND EXTENSION**
- **ENCOMBREMENT ET EXTENSION**
- **AUSMAß UND VERSTELLBARKEITSLÄNGEN**
- **DIMENSIONES Y EXTENSIONES**



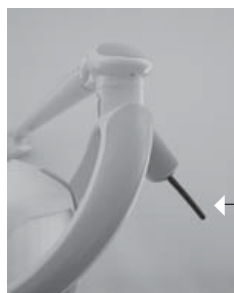


fig.1

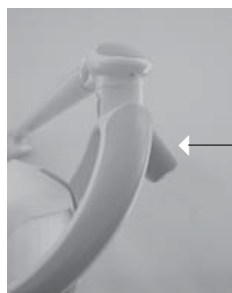


fig.2

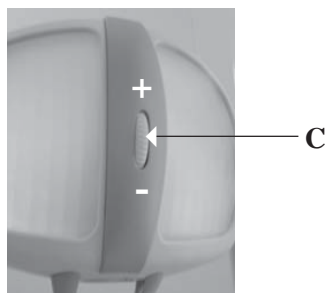


fig.3



fig.4



fig.5

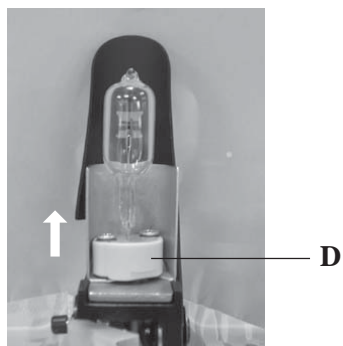


fig.6



fig.7

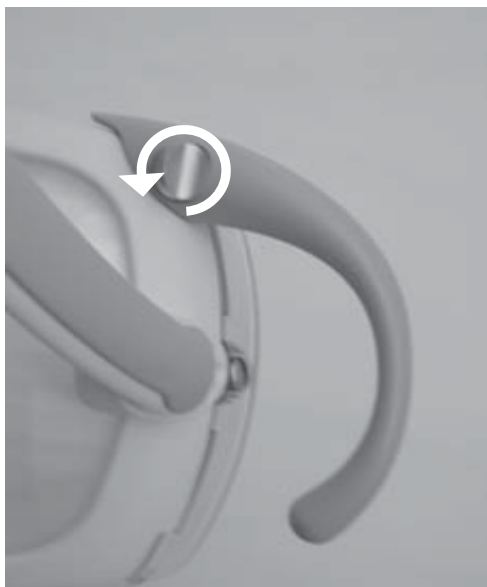


fig. 8

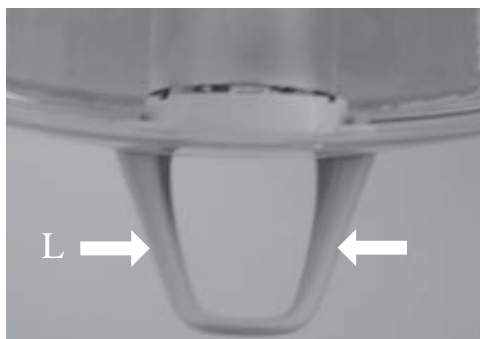


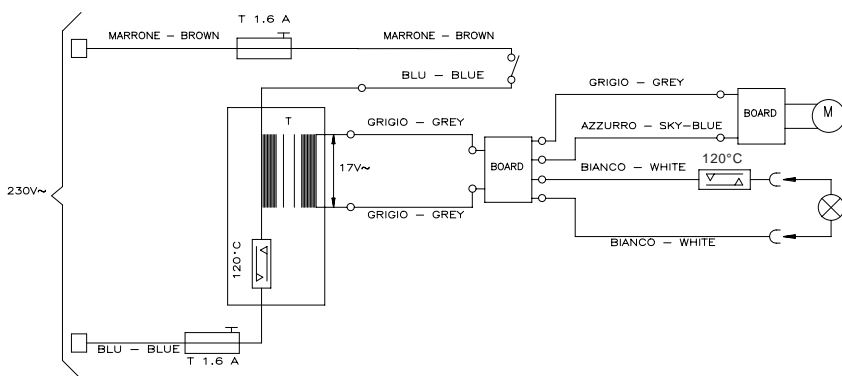
fig.9



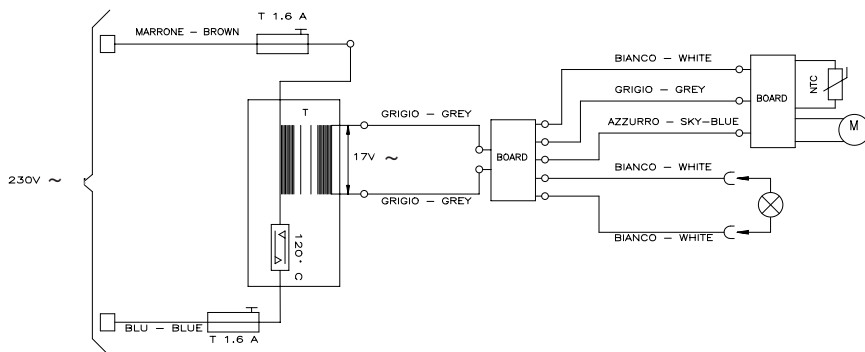
fig.10

SCHEMI ELETTRICI - ELECTRICAL CONNECTION DIAGRAMS - SCHEMA DE CONNEXION ELECTRIQUE - ELEKTROSCHEMEN DIAGRAMAS DE CIRCUITO

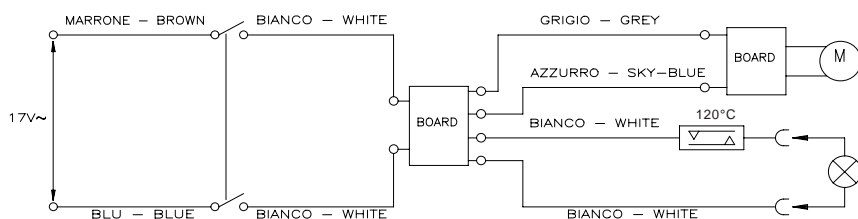
Lampada S (con trasformatore) - Lamp S (with Transformer) - Lampe S (avec transformateur)
Dentallampe S (mit Transformator) - Lámpara S (con transformador)



- Lampada SP (con trasformatore e interruttore a sensore)
- Lamp SP (with Transformer and sensor switch)
- Lampe SP (avec transformateur et interrupteur à capteur)
- Dentallampe SP (mit Transformator und Fühlerschalter)
- Lámpara SP (con transformador e interruptor a sensor)



- **Lampada TS** (senza trasformatore)
- **Lamp TS** (without Transformer)
- **Lampe TS** (sans transformateur)
- **Dentallampec TS** (ohne Transformator)
- **Lámpara TS** (sin transformador)



- **Lampada TSP** (senza trasformatore con interruttore a sensore)
- **Lamp TSP** (without transformer with sensor switch)
- **Lampe TSP** (sans transformateur et interrupteur à capteur)
- **Dentallampe TSP** (ohne Transformator und Fühlerschalter)
- **Lámpara TSP**

