TOP VIEW (MEASUREMENTS IN MILIMETERS)

It's highly recommended that the **Gnatus Authorized Technician**

supervises the hydraulic, electric, air and drainage installation (lower part, according to pre installation manual).

> Access our web site www.gnatus.com.br

Look for the nearest

technical service office's address.

Specialized Technical Service Promptness, safety and efficiency guarantee the best after-sale customer service

G - WATER - PVC tube welding acceptable Ø 20 mm, glove at the tip with tin plug of Ø 20 X 1/2" in contact with the floor connected to the water supply.

H - SUCTION - PVC tube welding acceptable Ø 25 mm, glove at the tip with tin plug of Ø 25 x 3/4" in contact with the floor connected to the point "H" of the connection box.

I - DRAINING - PVC tube welding acceptable Ø 40 mm, glove at the tip with tin plug of Ø 25 x 3/4" in contact with the floor connected

to the inspection box (with a minimum decline of 2%). It's important the drain to be independent from the other tubing

system as to avoid reflux. J - SUCTION CONTROLS - Flexible electro duct of Ø 20 mm

ending at 50 mm above the floor with wires of 3 x 0,75 mm² (different

colors), 200 mm above the electro duct connected to the point J of

POWER OUTLET – Wires of 3x2,5mm² (live wire/ground).

Electrical installation orientation.

To ensure a proper functioning of the Equipment, please be aware of the voltage and the wires diameter specified by factory.

BIO-VAC IV	Voltage(V)	Cable diameter (mm²)	Distance (m)
	127	2,5	Up to 20
	127	4	OF 21 up to 40
	220	2,5	Up to 50
BIO-VAC II	Voltage(V)	Cable diameter (mm²)	Distance (m)
	127	2,5	Up to 30
	127	4,0	OF 31 up to 50
	220	2,5	Up to 50
TIMEX 70 C X - RAYS	Voltage(V)	Cable diameter (mm²)	Distance (m)
	127	2,5	Up to 20
	127	4	OF 21 up to 40
	220	2,5	Up to 50

• The distance specified on the table above is from the distribution box up to the installation of the equipment.

• The diameter of the wires that feed the main distribution box must be larger than the ones specified above.

EQUIPAMENTOS MÉDICO-ODONTOLÓGICOS LTDA. Rod. Abrão Assed, Km 53+450m

CEP 14097-500 - Ribeirão Preto - S.P. - Brasil Fone (16) 2102-5000 - Fax (16) 2102-5001 C.N.P.J. 48.015.119/0001-64 - Insc. Est. 582.329.957.115 www.gnatus.com.br - e-mail: gnatus@gnatus.com.br

* J -Point - Suction Controls * G -Point - Water * I - Point - Drain

* H -Point - Suction 17 - Threadable reducer 3/4" to 1/2"

*16-3 & 0,75mm² wires - Suction control (Electricaldute) 15 - Hose Sve Sanf. Ø 3/4"

14 - Power cord - Electricity network

06 - Ø 3/4" hose adapter 03 - Hose, Pu Green 6,0x8,5 mm - Water 01 -3 Ø 0,75mm² wires - Suction control

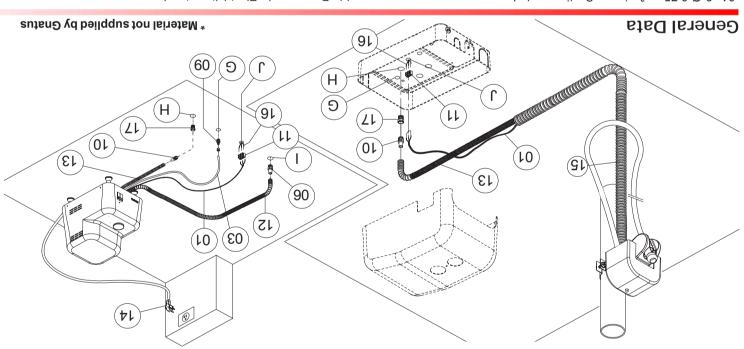
13 - Hose, SvI Vacum Ar Ø 1/2" - Suction

12 - Hose, SvI Vacuum Ar Ø3/4" - Drain

09 - Ø 1/2" water inlet connection

11 - Connector

10 - Ø 1/2" hose adapter

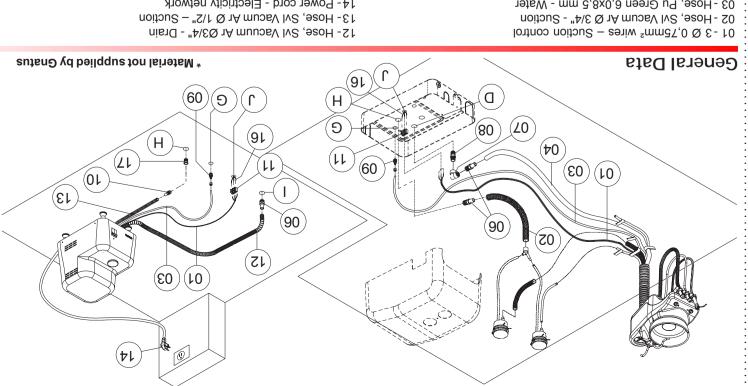


BIO VAC II INSTALLED IN THE SUCTION KIT

* D - Point - Water unit drain * J - Point - Suction Controls * G - Point - Water * I - Point - Drain * H - Point - Suction

17- Threadable reducer 3/4" to 1/2" *16-3 \otimes 0,75mm² wires - Suction control (Electricaldute) 14- Power cord - Electricity network

11 - Connector 10 - Ø 1/2" hose adapter 09 - Ø 1/2" water inlet connection 08 - 3/4" threaded nipple 07 - 90° 3/4" elbow 06 - Ø 3/4" hose adapter 04 - Hose, SvI Vacum Ar Ø 3/4" - Water unit drain 03 - Hose, Pu Green 6,0x8,5 mm - Water



BIO VAC II INSTALLED IN THE WATER UNIT

PRE-INSTALLATION MANUAL

The well functioning and durability of the gnatus dental set are directly influenced by the pre-installation, which should done according to instructions in this plant.

Directions to preparing the pre-installation of the dentist's office

In order to ensure the correct operation of the dentist's office, we recommend that a qualified technician perform the pre-installation. Any damage to the equipment caused by a failure (electrical, hydraulic or pneumatic) in the pre-installation will not be covered by the warranty.

Dear customer

Congratulations. You have made a good choice when you decided to buy a GNATUS QUALITY product comparable to the best products available in the World. This manual is a general

presentation of your product and it will give you important details We must also point out to you our chain of authorized dealers. Only dealers that make part of this chain will be able to keep your equipment constantly new for they count on technical assistants who have been trained and on spedific tools for the correct

Doubts and information: GNATUS Call center (55-16) 2102-

Dental set ergonomic installation

maintenance of your equipment.

ROOM AREA DIVISION

AREA LIMITTED BY THE CIRCLE (A):

reach the area within circle (B).

6-12 HOURS AXEL

To obtain the best office space distribution, the place must be chosen to provide comfort to the operator in order to obtain good productivity

For this reason the equipment installation must be done under the strict recommendations by the I.S.O.(International Standards Organization) and the I.D.F. (International Dental Federation)

To asses the equipment installation the I.S.O./I.D.F. made as a standard to divide the room in areas (see illustration). To perform

03

Divide the room in two areas: to the right and to the left of the dental chair.

of the hand pieces). This room should also have two stools.

AREA LIMITED BETWEEN CIRCLES (A) AND (B):

AREA LIMITED BETWEEN CIRCLES (B) AND (C):

These areas are reserved to the dentist and his/her assistant respectively.

It's the useful area that can be reached by the movements of a stretched arm.

It's where everything is transferred to the patient's mouth (the instruments and the tip

Sinks and cabinets are inside this area and once the drawers are open these should

this division, imagine the face of a clock, trace the concentric circuits (A),(B),(C) with its radius of 0.5, 1.0, 1.5 meters respectively, considering the center as the patient's mouth lying on the chair.

Cautions when installing the compressed air

We recommend that the air used to activate the equipment be filtered to avoid oil, humidity and solid particles be introduced in the interior of the it affecting important internal parts such as valves, etc. This procedure helps to maintain internal components and hand pieces in good shape.

It's very important to choose the compressor specifications well to assure the best possible performance of all the equipment.

- Ideal working pressure for a Gnatus dental set = 80 PSI
- Maximum air consuption of a Gnatus dental set = 80 l/min

POWER RATING

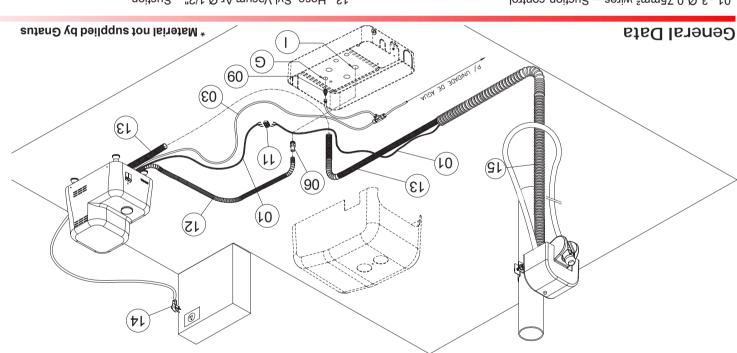
SYNCRUS DENTAL CHAIR 200 VA SYNCRUS GL DENTAL CHAIR 200 VA SYNCRUS GLX DENTAL CHAIR 530 VA **LED DENTAL LIGHT - 5 LEDs** 60 VA **LED DENTAL LIGHT - 3 LEDs** 40 VA **PERSUS L DENTAL LIGHT** 55 VA PERSUS GL DENTAL LIGHT 55 VA STORUS GLX DENTAL LIGHT 60 VA 1540 VA X-RAY TIMEX 70 **OPTILIGHT LD MAX** 17 VA **OPTILIGHT CL ALCANCE** 45 VA 60 VA **JET-SONIC AMALGAMIX II** 110 VA **BIO-VAC IV** 1650 VA **BIO-VAC II** 1100VA **AUTOCLAVE BIOCLAVE 12L 1600VA**

THE DENTAL OFFICE SHOUDN'T HAVE MORE THAN 3 METERS IN WIDTH TO AVOID UNCONFORTABLE



(12)

- * G Point Water * I - Point - Drain
- 15 Hose Sve Sanf. Ø 3/4"
- 14 Power cord Electricity network
- 13 Hose, SvI Vacum Ar Ø 1/2" Suction
- 11 Connector 09 - Ø 1/2" water inlet connection
- 06 Ø 3/4" hose adapter
- 03 Hose, Pu Green 6,0x8,5 mm Water 01 -3 Ø 0,75mm² wires - Suction control



BIO VAC II INSTALLED IN THE SUCTION KIT

* D - Point - Water unit drain

* G - Point - Water

* I - Point - Drain 14 - Power cord - Electricity network

13 - Hose, SvI Vacum Ar Ø 1/2" - Suction

12 - Hose, SvI Vacuum Ar Ø3/4" - Drain

11 - Connector

09 - Ø 1/2" water inlet connection

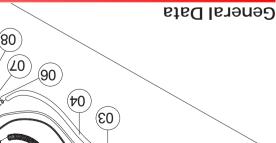
05 - LL 3/4"- 1/2" reducer 04 - Hose, SvI Vacum Ar Ø 3/4" - Water unit drain

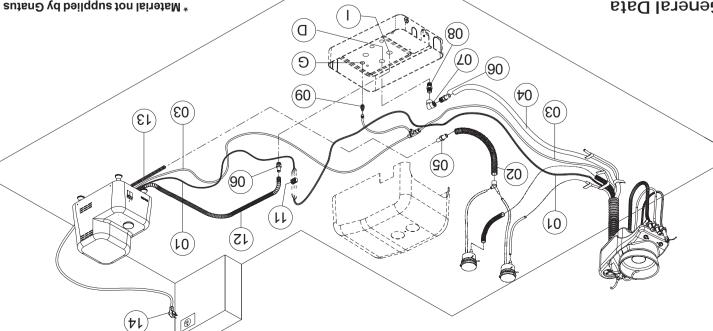
03 -Hose, Pu Green 6,0x8,5 mm - Water 02 - Hose, SvI Vacum Ar Ø 3/4" - Suction 01 -3 Ø 0,75mm² wires - Suction control

08 - 3/4" threaded nipple

06 - Ø 3/4" hose adapter

07 - 90° 3/4" elbow





BIO VAC II INSTALLED IN THE WATER UNIT

BIO VAC IV INSTALLED IN THE WATER UNIT 12 03 (04) (07) (D)**General Data** (11) * Material not supplied by Gnatus 12 - Hose, SvI Vacuum Ar Ø3/4" - Drain

- 01 3 Ø 0,75mm² wires Suction control
- 02 Hose, SvI Vacum Ar Ø 3/4" Suction
- 03 Hose, Pu Green 6,0x8,5 mm Water
- 04 Hose, SvI Vacum Ar Ø 3/4" Water unit drain
- 06 Ø 3/4" hose adapter
- 07 90° 3/4" elbow 08 - 3/4" threaded nipple
- 09 Ø 1/2" water inlet connection

- 11 Connector

BIO VAC IV INSTALLED IN THE SUCTION KIT (12)

01-3 Ø 0,75mm² wires - Suction control

- 03- Hose, Pu Green 6,0x8,5 mm Water
- 06-Ø 3/4" hose adapter 09-Ø 1/2" water inlet connection
- 10-Ø 1/2" hose adapter
- 11 Connector 12-Hose, Svl Vacuum Ar Ø3/4" - Drain

General Data

- 13-Hose, SvI Vacum Ar Ø 1/2" Suction
- 14 Power cord Electricity network 15 - Hose Sve Sanf. Ø 3/4"

14 - Power cord - Electricity network

* H - Point - Suction

* I - Point - Drain

* G - Point - Water

* J - Point - Suction Controls

D - Point - Water unit drain

18 - Hose, Svl Vacuum Ar Ø3/4" - Suction

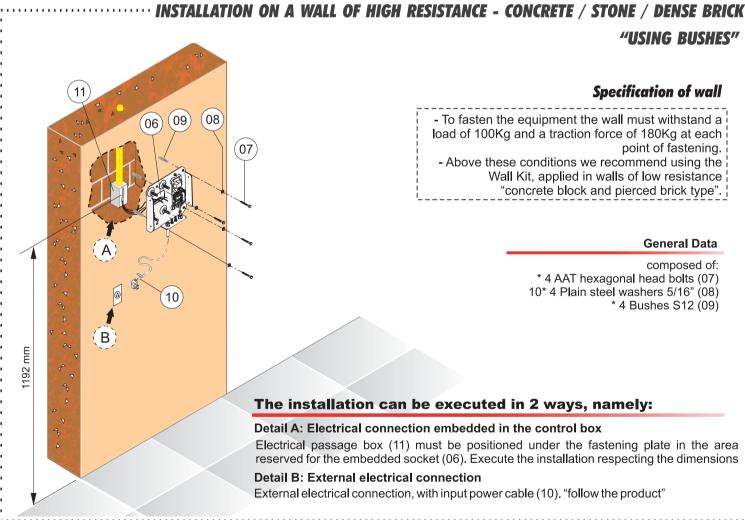
* 16 - 3 Ø 0,75mm² wires - Suction control (Electricaldute)

- * 16 3 Ø 0,75mm² wires Suction control (Electricaldute)

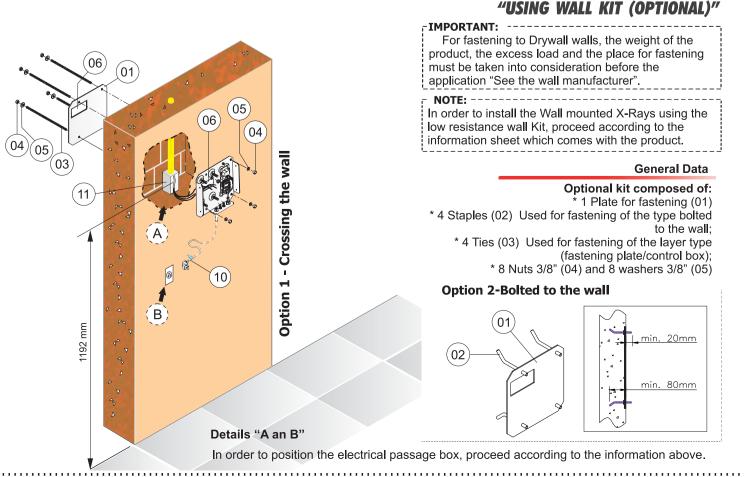
* Material not supplied by Gnatus

- 17 Threadable reducer 3/4" to 1/2"
- 18 Hose, Svl Vacuum Ar Ø3/4" Suction * H - Point - Suction
- * I Point Drain
- * G Point Water
- * J Point Suction Controls

CONDITIONS FOR PRE-INSTALLATION X-RAYS WALL MOUNTED / OPTILIGHT CL ALCANCE WALL MOUNTED



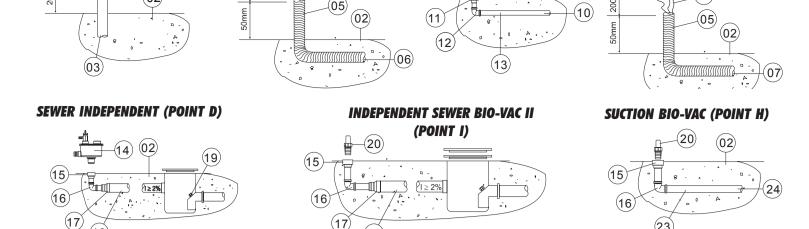
······················ INSTALLATION ON LOW RESISTANCE WALL - CONCRETE BLOCK / PIERCED BRICK



INTERNAL CONNECTION POINTS (CONNECTION BOX)

ELECTRICAL (POINT B)

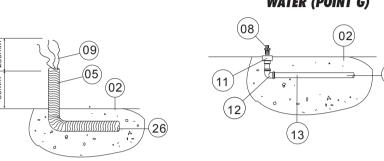
AIR (POINT A)



INTERNAL CONNECTION POINTS (BIO VAC)

SUCTION BIO-VAC (POINT H) SEWER INDEPENDENT (POINT I)

WATER (POINT G)



General Data

request the orientation of the authorized resale.

- *01 Copper tube Ø1/4"
- *02 Finished floor

prior notice.

WATER (POINT G)

- *04 3 threads 2,5mm² (ground) *05 - Flexible corrugated electricaldute Ø20mm
- *06 Power inlet

IMPORTANT: The dimensions and facilities are to an only clinic. For other situations to

GNATUS reserves the right to alter the specifications of its products without

- *07 Linked to the point J of Bio Vac
- 08 Niple Ø1/2" (Gnatus)
- *09 3 threads 0,75mm² (in different collors) *10 - Water inlet
- *11 Soldered glove and with plug of brass Ø20mm x 1/2"
- *12 Soldered knee 90° Ø20mm *13 - Soldered PVC tube Ø20mm
- 14 Supressed (Gnatus) *15 - Soldered glove and with plug of brass Ø25mmx3/4"
- *16 Soldered knee 90° Ø25mm
- *17 Soldered plug of reduction far away
- *18 Soldered PVC tube Ø40mm
- *19 Inspection box 150x150x50mm 20 - Niple Ø3/4"
- *23 Soldered PVC tube Ø25mm *24 - Linked with of point H of Bio Vac *25 - Point H connection box
- *26 Linked to the point J of connection box

* Material not supplied by Gnatus

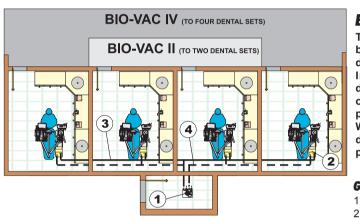
CONNECTIONS FOR MORE THAN ONE DENTAL SET

BIO-VAC IV

The maximum distance allowed between a Bio-Vac IV and only one dental set is 15m. Installing the equipment within a

distance above the recommended one could affect the equipment's performance. Whenever installed between 04

dental sets the equipment should be placed in the middle. The dental set furthest away shouldn't be over 5m.



The Bio-Vac IV is dimensioned to four dental sets

The Bio-Vac II is dimensioned to two dental sets

BIO-VAC II The maximum distance allowed

between a Bio-Vac II and only one dental set is 5m. Installing the equipment within a distance above the recommended one could affect the equipment's

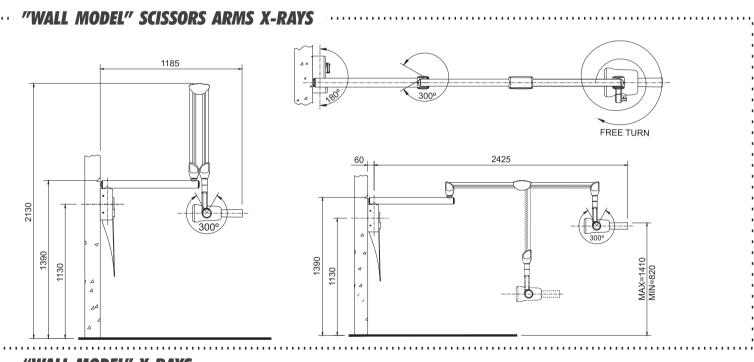
SUCTION CONTROLS BIO-VAC (POINT J)

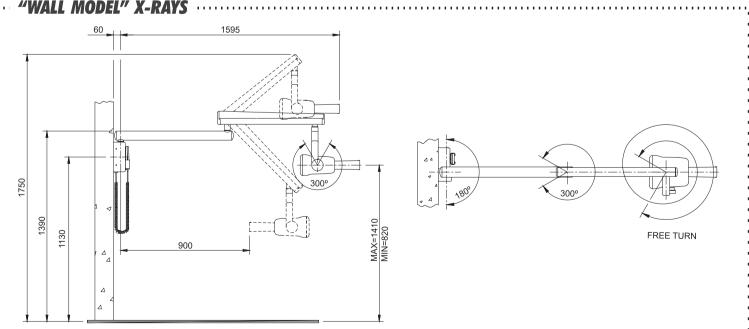
performance. Whenever installed between 02 dental sets the equipment should be placed in the middle.

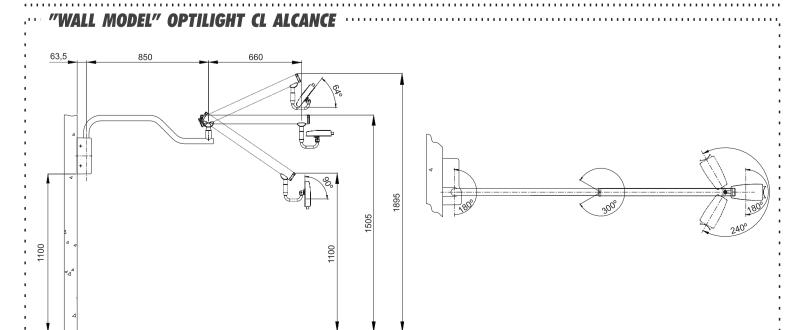
General Data

- 1 Bio Vac
- 2 Conection Box
- 3 Pvc Tube (Sucction) 4 - Three Ducting Wire (Suction Controls)

DIMENSIONS (mm)







INOVA NEW SPACE DENTAL SET

Option INOVA NEW SPACE Dental Set connection in the base of the dental chair

O.C

LOCATION PLANT - SCALE 1:1

IMPORTANT:

Before installing any model of GNATUS connection box, follow the recommendations above.

NOTE

In order to define the choice of plan, verify the model of your equipment.

IT'S COMPULSORY *Material not supplied by GNATUS*

- * A master water system shut down valve in the office;
- * A Bio-Vac water system shut down valve;
- * Air filter with adjustable pressure supply for the office. (ideal working pressure = 80 PSI)
- * A master electrical system shut down switch for the office;
- * Electrical system shut down switch for the compressor;
- * Electrical shut down switch for the Bio-Vac.
- * Proper grounding.

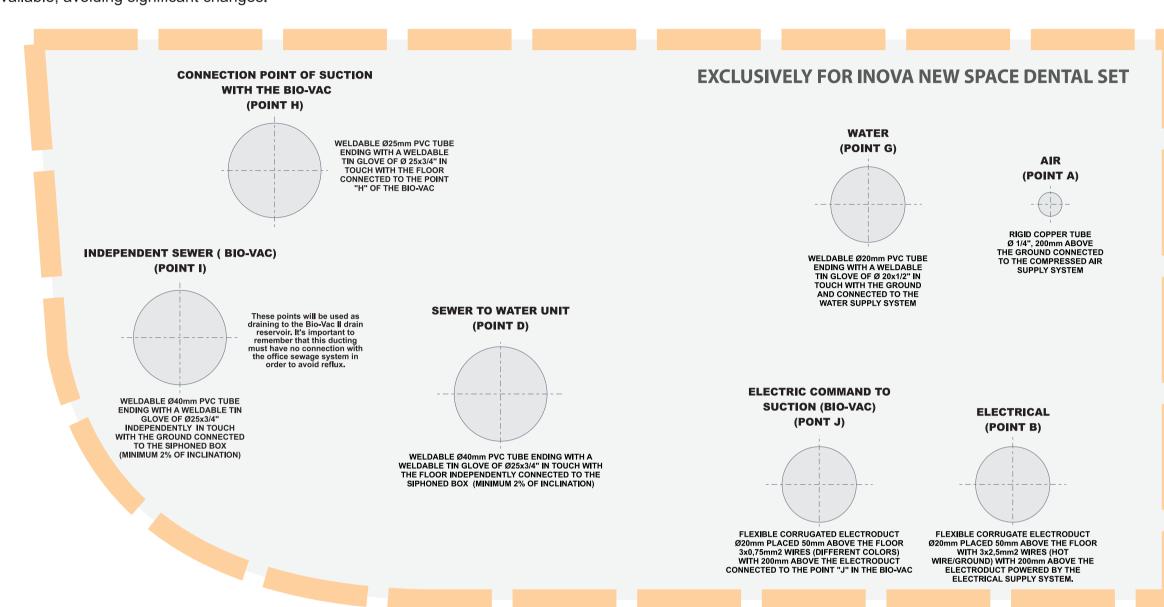
ATENTION

To make the installation of peripherals easier it's recommended to place a Ø 3/4" PVC hose 3mm thick connecting the connection box to the cabinet so the water, compressed air, and electrical ramification can be done later. The technician is authorized not to perform the installation of the GNATUS equipment if the pre-installation, hydraulic, electrical, air and sewage systems are not in accordance with the recommendations.

IMPORTANT:

It's absolutly necessary do Install electrical grounding.

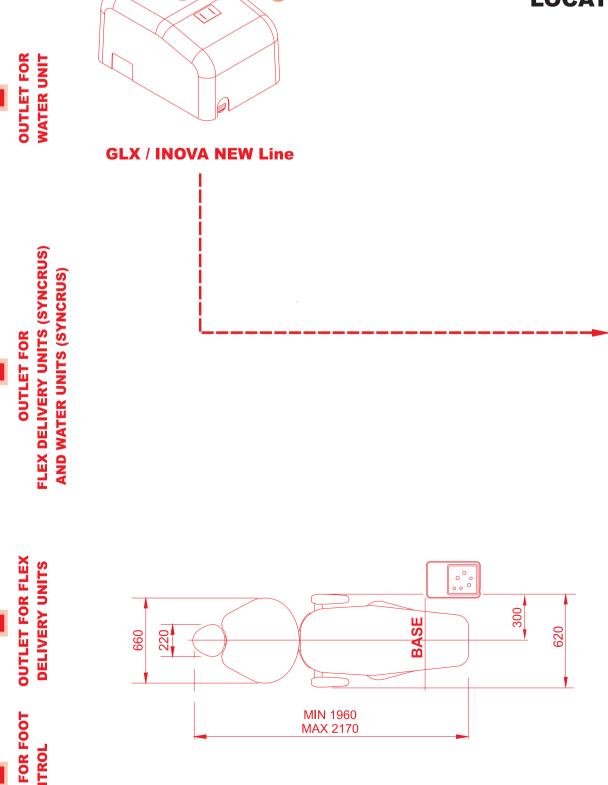
Points J and H are connected to points J and H of the Bio-Vac installation location. It's important to have these connection points ready even if you haven't acquired a Bio-Vac system. In the future they will be available, avoiding significant changes.

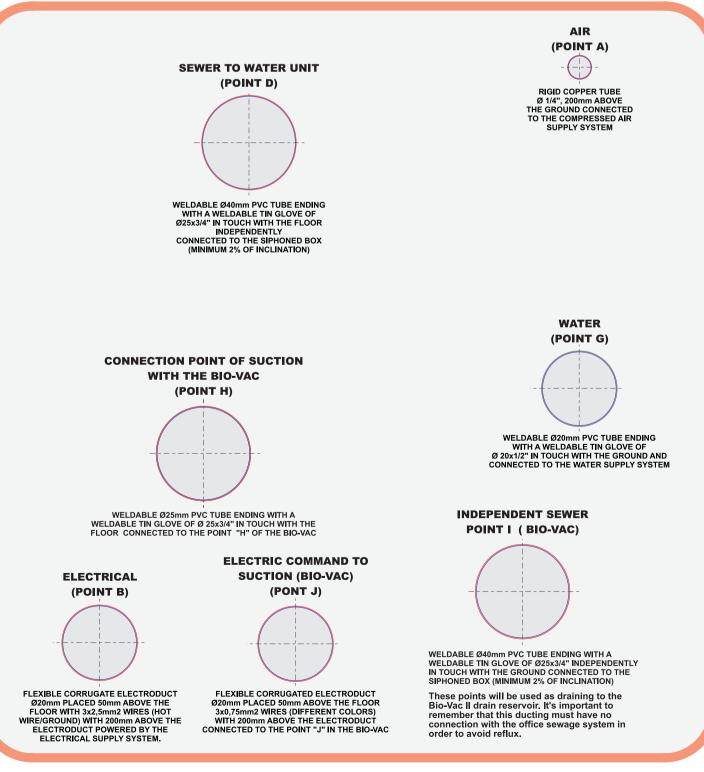


DIMENSIONS IN MILLIMETERS

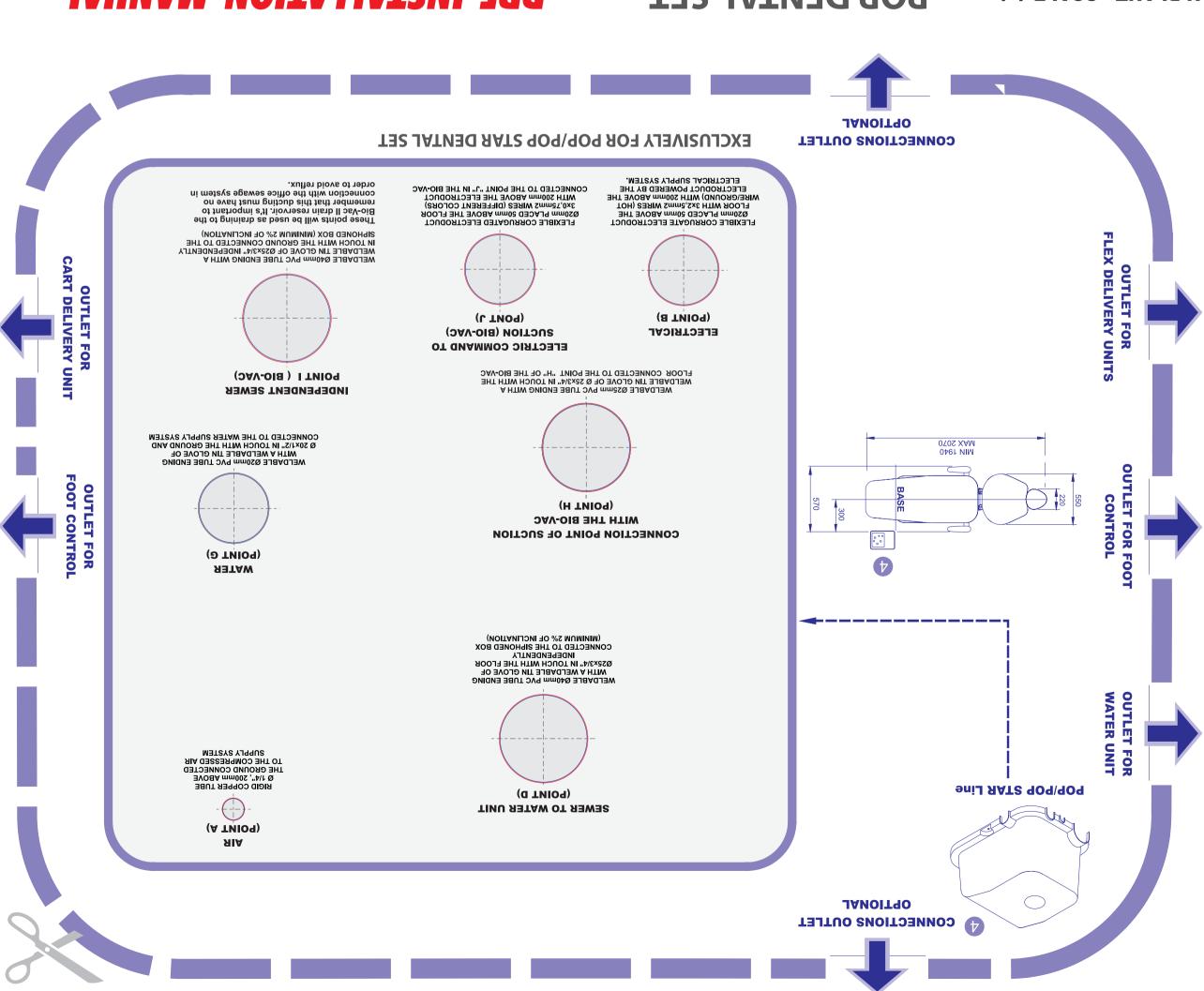
SYNCRUS GLX/INOVA NEW DENTAL SET

LOCATION PLANT - SCALE 1:1





EXCLUSIVELY FOR SYNCRUS GLX/INOVA NEW DENTAL SET



MILLIMETERS

DIWENSIONS IN

Leaf 02

CNATUS

PRE-INSTALLATION MANUAL

dental chair

connection in the base of the

Option POP Dental Set

POP DENTAL SET

* Proper grounding.

2 - Option for connection in the base of the dental chair without using the connection box "Inova New Space Dental Set".

* Electrical shut down switch for the Bio-Vac.

* Electrical system shut down switch for the compressor;

* A master electrical system shut down switch for the office;

LOCATION PLANT - SCALE 1:1

:TNATAO9MI

Before installing any model of GNATUS connection box, follow the recommendations above.

In order to define the choice of plan, verify the model of your equipment.

11 - Option for connection in the base of the dental chair without using the connection box "Pop Dental Set". CONNECTIONS

Option with the connection box "Pop / Pop Star Dental Set". ... Option with the connection box "Syncrus GLX / Inova New Dental Set".

IT'S COMPULSORY *Material not supplied by GNATUS*

* A Bio-Vac water system shut down valve; * A master water system shut down valve in the office;

(ideal working pressure = 80 PSI) * Air filter with adjustable pressure supply for the office.

To make the installation of peripherals easier it's recommended to place a Ø 3/4" PVC hose 3mm thick connecting the connection box to the cabinet so the water, compressed air, and electrical **NOITNATA**

accordance with the recommendations. ramification can be done later. The technician is authorized not to perform the installation of the GNATUS equipment if the pre-installation, hydraulic, electrical, air and sewage systems are not in

It's absolutly necessary do Install electrical grounding. :TNATAO9MI

Points J and H are connected to points J and H of the Bio-Vac installation location. It's important to have these connection points ready even if you haven't acquired a Bio-Vac system. In the

future they will be available, avoiding significant changes.

