**PRE-INSTALLATION MANUAL**

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

**Electrical Installation**

- **Vacuum Pump Bio Vac II / IV** - “External Connection”
- **Timex 70 C** - X-Rays

**Location Plant**

Vacuum Pump Bio Vac II / IV - “External Connection”

**Electrical Installation Orientation**

- **G** - Water
- **H** - Suction
- **J** - Drain
- **K** - Power cord - Electricity network
- **L** - 3 Ø 0,75mm² wires – Suction control
- **M** - Hose Sve SanF. Ø 3/4"
- **N** - Point - Water
- **O** - Point - Drain
- **P** - Threadable reducer 3/4" to 1/2"

**NOTES:**

- The distance specified in the table above is from the distribution box to the point of installation of the equipment.
- In the layout of the area that feed the main distribution box must be larger than the ones specified above.

**Dental Set ergonomic installation**

To obtain the best 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).

**Cautions when installing the compressed air**

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

**Power outlet**

- Wires of 3,5² mm² (live/ground)

**Contact Supplier**

- gnatus dental set ergonomic installation
- gnatus dental set pre-installation
**BIO VAC IV INSTALLATION OUTSIDE THE DENTIST’S OFFICE**

### General Data

1. Hose, Svl Vacuum Ar Ø 1/2" – Suction
2. Hose, Svl Vacuum Ar Ø 3/4" – Drain
3. Connector
4. Ø 1/2" hose adapter
5. Ø 1/2" water inlet connection
6. Ø 3/4" hose adapter
7. 90º 3/4" elbow
8. Hose, Svl Vacuum Ar Ø 3/4" – Suction
9. Hose, Svl Vacuum Ar Ø 3/4" – Water unit drain
10. 3 Ø 0,75mm² wires – Suction control
11. Hose, Pu Green 6,0x8,5 mm – Water
12. 3 Ø 0,75mm² wires – Water unit drain
13. Hose, Svl Vacuum Ar Ø 1/2" – Suction
14. Power cord – Electricity network
15. Hose Sve Sanf. Ø 3/4"
16. Power cord – Electricity net (Electrdute)
17. Threadable reducer 3/4" to 1/2"
18. Hose, Svl Vacuum Ar Ø 3/4" – Suction

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**BIO VAC IV INSTALLED IN THE SUCTION KIT**

**BIO VAC IV INSTALLED IN THE WATER UNIT**

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**INTERNAL CONNECTION POINTS (CONNECTION BOX)**

**Air (Point A)**

1. Copper tube 20/4"

**Electrical (Point B)**

2. Finished floor

**Water (Point G)**

3. Copper tube 20/4"

**Suction Controls (Point H)**

4. Power inlet

**Sewer Independent (Point D)**

5. 3 threads 2,5mm² (ground)

**Independent Sewer Bio-Vac II (Point I)**

6. Flexible corrugated electricaldute Ø20mm

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**CONNECTIONS FOR MORE THAN ONE DENTAL SET**

- The maximum distance allowed between a Bio-Vac IV and only one dental set is 15m.
- Whenever installed between 03 and 04 one could affect the equipment's performance.
- The maximum distance allowed between 04 and only one dental set is 15m.

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**INTERNAL CONNECTION POINTS (BIO VAC)**

- Copper tube 20/4"
- Finished floor
- Air
- 3 threads 2,5mm² (ground)
- Flexible corrugated electricaldute Ø20mm
- Power inlet
- Linked to the point J of Bio Vac
- Water inlet
- Soldered plug of reduction far away
- Soldered PVC tube Ø40mm
- Inspection box 150x150x50mm
- Soldered plug of reduction far away
- Soldered PVC tube Ø32mm

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**DIMENSIONS (mm)**

**Wall Model**

- Scissors Arms X-Rays
- "Wall Model" X-Rays

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

**INSTALLATION ON A WALL OF HIGH RESISTANCE - CONCRETE / STONE / DENSE BRICK**

- "USING BUSHES**

**Specification of wall**

- To transmit the equipment the withstand a load of 1000Kg and a friction force of 100Kg at each point of fastening.
- Above these conditions we recommend using the Wall Kit, applied to wall of resistances concrete, sand and pressed concrete, 2

**General Data**

- Screw Ø 6 4 AAT hexagonal-head screw (3F) 4 P6 0911 washers 2/12 (3F)
- 4 Bushes 812 (3F)

**The installation can be executed in 2 ways, namely:**

**Detail A:** Electrical connection embedded in the control box

- Electrical elements box (11) must be positioned under the fastening piece, in the area reserved for the embedded socket (9). Execute the installation respecting the dimensions indicated

**Detail B:** External electrical connection

- Electrical installation, without power cable (10), "-use the product"

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

- "USING WALL KIT (OPTIONAL)"

**Important:**

- The fastening to Concrete block, the weight of the product: the average load of the chosen installation kit must be according to the information sheet which comes with the product.

**NOTICE:**

- In order to install the WallMounted X-Rays using the Wall kit, select the wall kit according to the information sheet which comes with the product.

**General Data**

- Option 1 - Cutting the wall
- Option 2 - Bolted to the wall

**Option Kit component of**

- 4 Plates (3F)
- 4 Screws (3F)
- 4 Bolts (3F)
- 4 Nuts 3/16" (3F) and washers 3/8"  (3F)