

English

USER'S MANUAL

Vacuum Pumps
E-Vac 1 HP
E-Vac 1/2 HP



 **EvoTECH**
Dental Line

INDEX**3 PRESENTATION**

- 3 DEAR CUSTOMER
- 3 SUPPLIER / MANUFACTURER
- 3 HANDLING INSTRUCTIONS

3 PRODUCT IDENTIFICATION

- 4 PRODUCT COMPONENTS
- 5 EQUIPMENT DESCRIPTION
- 5 E - VAC PUMPS CHARACTERISTICS

7 TECHNICAL SPECIFICATIONS

- 7 GENERAL CHARACTERISTICS
- 9 DIMENSIONAL (mm)
- 9 SYMBOLOGIES

10 INSTALLATION

- 10 ELECTRICAL CONNECTIONS
- 12 HYDRAULIC INSTALLATION
- 13 WIRING / CIRCUIT BREAKER DIMENSIONING TABLE
- 13 SUCTION PIPE DIMENSIONING TABLE
- 14 SETTING THE WATER FLOW

15 PRECAUTIONS, RESTRICTIONS AND WARNINGS

- 15 SAFETY RECOMMENDATIONS FOR PROTECTION AGAINST ELECTRIC SHOCK
- 15 EQUIPMENT CONSERVATION RECOMMENDATIONS
- 15 TRANSPORT, STORAGE AND OPERATION CONDITIONS
- 15 SENSITIVITY TO PREDICTABLE ENVIRONMENTAL CONDITIONS UNDER NORMAL USE SITUATIONS
- 15 PRECAUTIONS AND WARNINGS DURING EQUIPMENT INSTALLATION
- 16 PRECAUTIONS AND WARNINGS WHILE USING THE EQUIPMENT
- 16 PRECAUTIONS AND WARNINGS AFTER USING THE EQUIPMENT
- 17 PRECAUTIONS AND WARNINGS DURING EQUIPMENT CLEANING AND DISINFECTION
- 17 PRECAUTIONS IN CASE OF CHANGE IN EQUIPMENT OPERATION
- 17 PRECAUTIONS TO BE TAKEN AGAINST THE FORESEEABLE OR UNUSUAL RISKS RELATED TO THE DEACTIVATION AND ABANDONMENT OF THE EQUIPMENT

17 CORRECTIVE AND PREVENTIVE MAINTENANCE

- 17 GENERAL CLEANING
- 18 MAINTENANCE, CLEANING AND ASEPSIA
- 18 CLEANING THE SOLIDS AND WASTE COLECTOR FITER
- 18 CLEANING OF SINTERED FILTER AT THE WATER INLET

19 UNEXPECTED - TROUBLESHOOTING

- 19 FINAL CONSIDERATIONS**
- 20 EQUIPMENT WARRANTY**

PRESENTATION

DEAR CUSTOMER

DEAR CUSTOMER,
Congratulations and welcome to the Evotech Family, we are proud of your preference for choosing our product!

This manual provides a general presentation of the equipment. It describes important details that can guide you for its correct use and preventive maintenance, as well as the necessary care to extend its lifespan and aspects that may compromise the warranty.

We advise you to read and keep this manual in full for future reference.
Should you have any further questions, please contact our service center:

Phone: (16) 3951-7542

Site: www.grupoevotech.com.br

E-mail: cbanhos@grupoevotech.com.br

SUPPLIER / MANUFACTURER

CNPJ: 34.623.259/0001-00 – I.E. 279.053.570.110

Dr. José Eduardo Vieira Palma, Street – Jardim Sumaré - Cravinhos – SP – CEP 14140-000
BRAZIL

IMPORTANT

All the information, illustrations and specifications in this Manual are based on the existing data at the time of its publication. We reserve the right to make changes at any time, both to the product and to this Manual, without prior notice.

HANDLING INSTRUCTIONS

E-Vac Vacuum Pumps can be used in all dental procedures where aspiration is required. They were designed to produce a high suction power, that is why they are indicated for aspiration, in a consistent way, of residues such as: blood, spit and residues present in the operative field, eliminating them directly to the drain; In addition, bacterial aerosols are effectively reduced, helping in the biosecurity of dental practices.

This equipment is exclusively for dental use, and must be used and handled by a trained person (duly regulated professional, according to local legislation of the country) obeying the instructions contained in this manual.

It is the user's obligation to use the equipment only in perfect condition to protect the operator, patients and third parties against possible dangers.

PRODUCT IDENTIFICATION

Technical name: Vacuum pump for dental offices

Commercial name: Vacuum pump

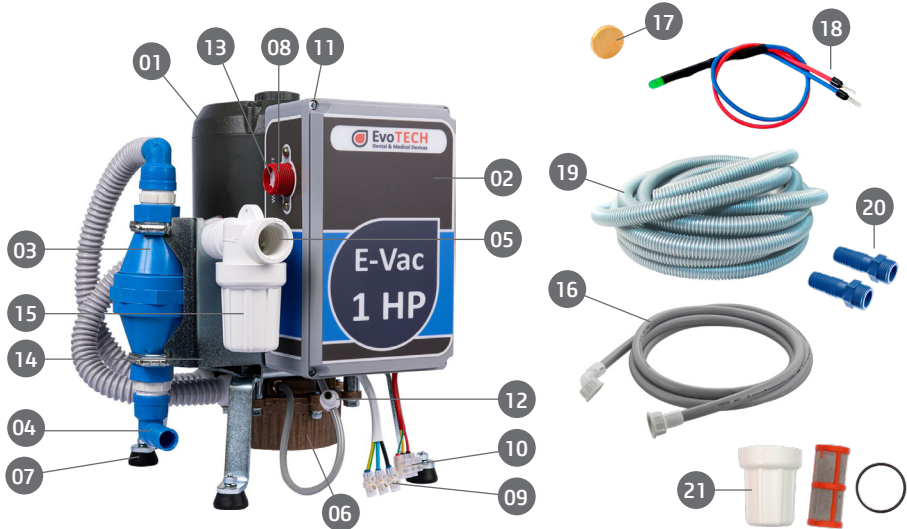
Models: E-Vac 1HP - E-Vac 1/2HP

Make: EVOTECH

PRODUCT COMPONENTS



The contents of this page are informative, and the equipment may be presented differently from the illustration. Therefore, when purchasing the product, check the technical compatibility between the equipment, the couplings and their accessories.



- 01. Electric motor
- 02. Protection box for electrical components
- 03. Highly efficient noise muffler
- 04. Drain outlet (3/4 "connection)
- 05. Suction inlet (3/4 "connection)
- 06. Turbine set
- 07. Vibraless leveling feet
- 08. Water inlet with standard connection
- 09. Electrical network connector
- 10. Suction drive connector
- 11. Quick lid opening and closing system
- 12. Water flow adjustment system
- 13. Filter at the motor water inlet
- 14. Electrical system installed in metallic chassis, isolated from the motor
- 15. Solids and debris collector filter
- 16. Water inlet hose
- 17. Sintered filter
- 18. Vacuum cleaner whip with Led
- 19. 3/4 "(2m) vacuum air hose
- 20. 3/4 "Adapters (pcs.)
- 21. Debris Collector Filter, Smart Kit

EQUIPMENT DESCRIPTION

A great ally in the fight against cross infection, it was idealized to meet the new bio-safety demands in the dental area, where the Vacuum pump has been applied aiming to reduce the use of the cusp, reducing the time to perform the procedures. It provides greater comfort to patients and provides the dental surgeon with a better visualization of the work field, due to its high suction power, reducing aerosols and eliminating blood, saliva and residues.

E - VAC PUMPS CHARACTERISTICS

POWER SUPPLY VOLTAGE:

Bivolt feature leaves the factory set for operation in 220V, requiring only the repositioning of the electric whips to change into 127V (this activity must only be carried out by an authorized Evotech technician);

CONTROL VOLTAGE:

24 Vdc, supplied via Transformer.

MOTOR:

WEG, High performance electric motor, provided with a stainless steel shaft and intermittent thermal protector.

TURBINE SET:

Formed with Flange, Rotor and Cover, manufactured in Brass alloy, guaranteeing high performance and durability;

NOISE MUFFLER:

Incorporated into the product, it effectively reduces the noise generated by the pump's air displacement;

RESIDUES FILTER:

Installed at the suction inlet, it has a cup located in the lower part, which, when removed for cleaning, avoids the splash of residues on the floor, further increasing the protection of the professional and biosafety;

WASTE COLLECTOR FILTER SMART KIT:

It allows quickly change the set that is in operation, allowing immediate return to activity;

DISCHARGE:

Performed directly into the drain;

ELECTRICAL COMPONENTS BOX:

Manufactured with injected engineering plastic, providing greater mechanical resistance, which is fixed on a metallic chassis and distant from the engine; avoiding direct heat transfer to components;

WATER ADJUSTMENT:

The regulator is located in the outer region of the Electrical Component Box, allowing easy access; the product leaves the factory adjusted for the consumption of 0.4 l min;

WATER INLET:

Standard threaded connection, being able to be connected to 3/4 "and 1/2" valves;

WATER FILTER SYSTEM:

There is a double filter at the water inlet, being a sintered filter mounted on the water inlet hose and a filter located in the water inlet solenoid valve itself, preventing the entry of residues;

DAMPING SYSTEM:

Through four leveling feet equipped with vibraless system;

ELECTRICAL COMPONENTS PROTECTION:

The product has an electric whip with a fuse, but it is necessary to install a circuit breaker that does not come with the product;

FINISH COVER (Optional):

Manufactured with steel plate with electrostatic painting;

BACKWASHING SYSTEM FOR SUCTION PIPES (Optional):

After inserting the aspirator into the support, the Vacuum pump will continue to operate for a few seconds to clean the suction pipe;

COLLECTOR FILTER AUTOMATIC PRE-WASHING SYSTEM (Optional):

When removing the aspirator from the support, the filter remains washing and the disposal is carried out directly to the drainage system.

TECHNICAL SPECIFICATIONS

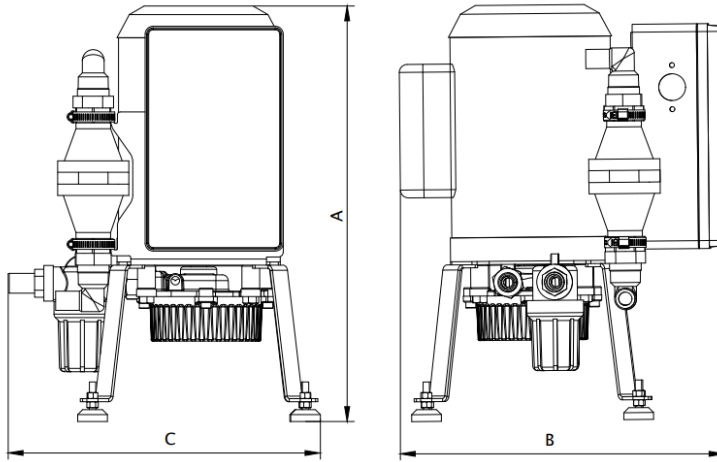
GENERAL CHARACTERISTICS

MODEL	E-Vac 1HP
POWER SUPPLY VOLTAGE	110/220V and 127/220V
NOMINAL CURRENT	110V/50Hz = 14,1 A 220V/50Hz = 7,03 A 127V/60Hz = 12,6 A 220V/60Hz = 6,2 A
FREQUENCY	50/60 Hz
NOMINAL POWER	110V/50Hz = 1551 VA 220V/50Hz = 1546 VA 127V/60Hz = 1600 VA 220V/60Hz = 1364 VA
RPM	110/220V/50Hz = 2930 127V/60Hz = 3540 220V/60Hz = 3510
SPIN DIRECTION	Clockwise
CONTROL VOLTAGE	24 Vdc
THERMAL PROTECTOR	At 130°C, it stops the motor, avoiding overheating
MOTOR POWER	1 Hp
CAPACITY	Operate up to 4 dental offices simultaneously
VACUUM MAX	600mm/Hg
SUCTION	400L/min
WATER CONSUMPTION	0,4L/min
DISTANCE BETWEEN THE PUMP AND THE DENTAL OFFICE (S):	Maximum of 12.5m for a single dental office for 4 offices, maximum of 5.5m referred to the more distant office.
LIQUID WEIGHT	23 kg
GROSS WEIGHT	25 kg
HEIGHT (A)	42 cm
WIDTH (B)	33 cm
LENGTH (C)	32 cm

GENERAL CHARACTERISTICS

MODEL	E-Vac 1/2HP
POWER SUPPLY VOLTAGE	110/220V and 127/220V
NOMINAL CURRENT	110V/50Hz = 9,16 A 220V/50Hz = 4,58 A 127V/60Hz = 8,58 A 220V/60Hz = 3,68 A
FREQUENCY	50/60 Hz
NOMINAL POWER	110V/220V / 50Hz = 1008 VA 127V/60Hz = 1090 VA 220V/60Hz = 810 VA
RPM	110/220V/50Hz = 2930 127V/60Hz = 3550 220V/60Hz = 3520
SPIN DIRECTION	Clockwise
CONTROL VOLTAGE	24 Vdc
THERMAL PROTECTOR	At 130°C, it stops the motor, avoiding overheating
MOTOR POWER	1/2 Hp
CAPACITY	Operate up to 2 dental offices simultaneously
VACUUM MAX	500mm/Hg
SUCTION	220L/min
WATER CONSUMPTION	0,3L/min
DISTANCE BETWEEN THE PUMP AND THE DENTAL OFFICE (S):	Maximum of 6.5m for a single dental office for 2 offices, should be placed in a central position in relation to them.
LIQUID WEIGHT	21 kg
GROSS WEIGHT	23 kg
HEIGHT (A)	42 cm
WIDTH (B)	33 cm
LENGTH (C)	32 cm

DIMENSIONS



SYMBOLOGIES



RECYCLABLE



NOTE:
INDICATES USEFUL INFORMATION
FOR PRODUCT OPERATION



WARNING, CHECK THE
INSTRUCTIONS MANUAL



DANGEROUS VOLTAGE



MAXIMUM STACKED



FRAGILE



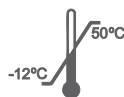
PROTECT FROM
SUNLIGHT



KEEP DRY



THIS SIDE UP



TEMPERATURE LIMITS
STORAGE / TRANSPORT

INSTALLATION

Installation of this equipment requires specialized technical assistance from Evotech. Request the presence of an Evotech representative technician at the resale or at the nearest Authorized Technical Assistance position, or through the Evotech Customer Service: Phone: 55 (16) 3951-7542 / E-mail: comercial@grupoevotech.com.br



NOTE

For this model of equipment we recommend installation outside the consulting room, in a neighboring room or in a machine room. It is important that the chosen place is protected from humidity, sunlight and provided with good ventilation.

ELECTRICAL CONNECTION

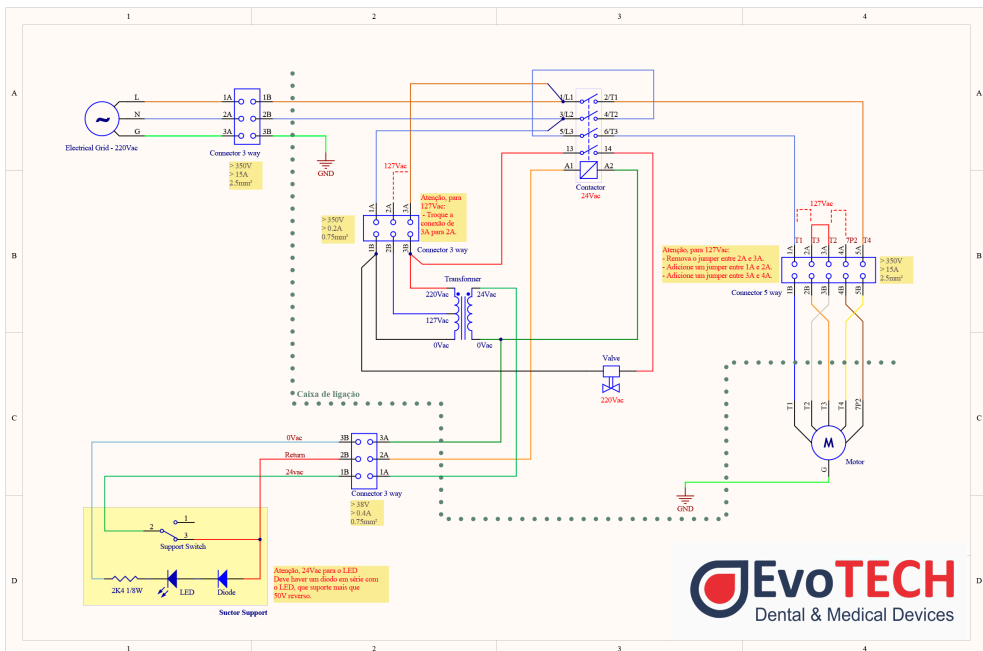


WARNING

The equipment leaves the factory suitable for 220V ~, therefore make sure that your network is compatible before connecting it, if it is 127V ~ inform the authorized Evotech technician so that he can carry out the necessary alterations.

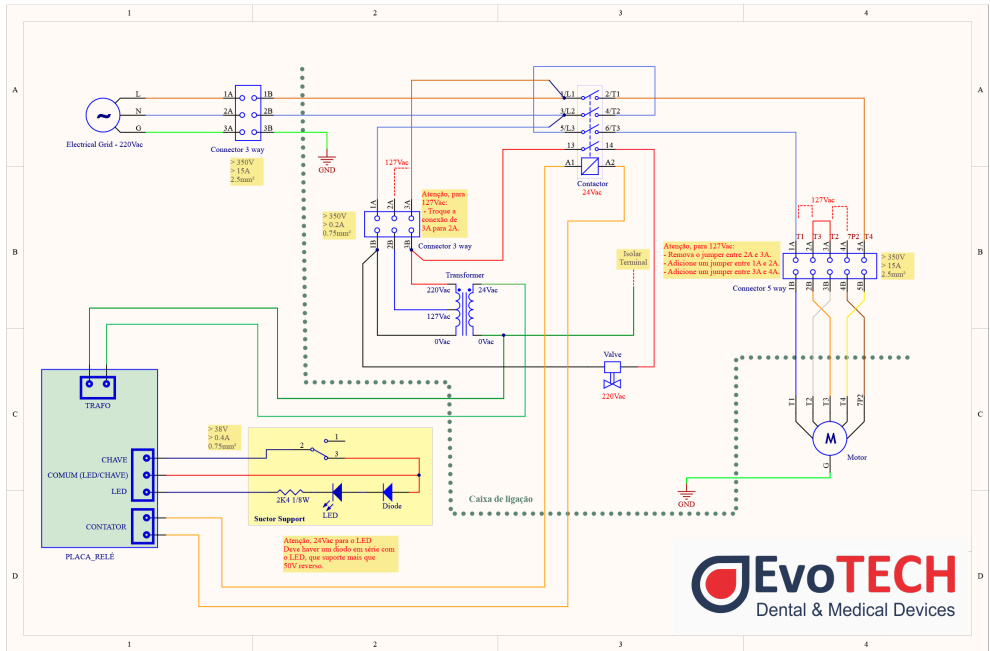
a) Model without suction pipe backwash system

To install in 127V, make the connection of the cables located inside the Protection Box (2) Page 4 as shown below:



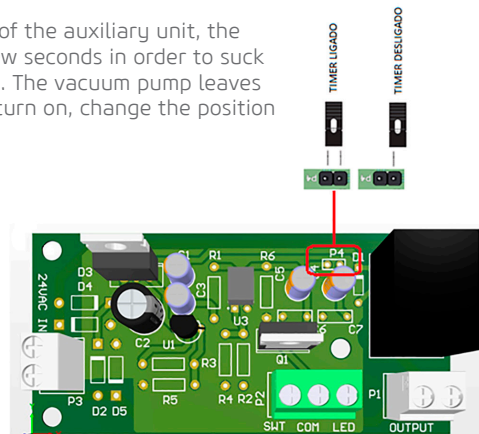
b) Model with suction pipe wash system

In this model, an Electronic Board has been included to control the time that the pump remains on, to clean the pipes:



Backwash System Operation

When placing the aspirator on the support of the auxiliary unit, the vacuum pump will continue to work for a few seconds in order to suck up all the debris and clean the suction pipe. The vacuum pump leaves the factory with the timer switched off. To turn on, change the position of Jumper P4 as shown below:



HYDRAULIC INSTALLATION

Activation of the suckers

Consult the manual of the dental office or the vacuum pump kit to locate the drive wiring of the micro switches and connect to the connector (Sindal type) of the vacuum pump (Fig. 10, page 4).

Consider the following points for the installation of the vacuum pump:

A. SUCTION: Ø25mm weldable PVC tube, ending in a weldable connector and with a Ø25x3/4" bronze bushing, flush with the ground, connected to the connection box.

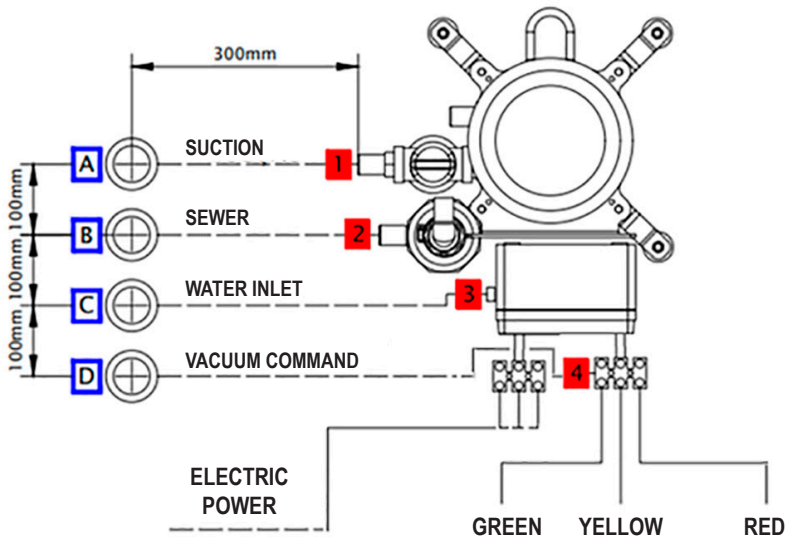
B. DRAINAGE: Ø40mm weldable PVC pipe, ending with a weldable connector and a Ø25x3/4" bronze bushing, flush with the ground, connected to the siphon box (minimum 2% slope).

C. WATER: Ø20mm weldable PVC tube, terminated in a weldable connector and with a Ø20x1/2" bronze bushing, flush with the ground, connected to the water network.

D. VACUUM CLEANER COMMAND: Ø20mm corrugated flexible duct, ending 50mm on the floor, with 3x0.75mm² cables (different colors), with 200mm on the duct - connected to the connection box.

Electrical power supply - 3x2.5mm² cables (network / ground).

Connection using a dedicated circuit breaker (not supplied) is mandatory.



ATTENTION:

GREEN AND YELLOW: DRIVE
RED: 24 VCC (LED)

WIRING / CIRCUIT BREAKER SIZING TABLE

MODEL	POWER (CV)	DCIRCUIT BREAKER (CURVE C)		WIRING: BETWEEN CIRCUIT BREAKER AND PUMP (mm²)					
				UP TO 15 m		between 15 and 30 m		larger than 30 m	
		127V	220V	127V	220V	127V	220V	127V	220V
E-Vac	1HP	16A	10A	2,5	2,5	4	2,5	6	4
E-Vac	1/2HP	10A	6A	2,5	2,5	4	2,5	6	4

SUCTION PIPING SIZING TABLE

MODEL	NUBER OF DENTAL OFFICES	MAX DISTANCE	DIAMETER
E-Vac 1 HP	4	UP TO 12,5 metros	Ø25mm
E-Vac 1/2 HP	2	UP TO 6,5 metros	Ø25mm



WARNING

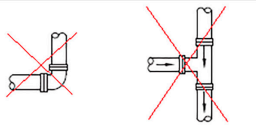
The performance of the Vacuum pump is directly related to the number of consultants and the distance from the suction pipes. Never install the vacuum pump in a superior level of the dental office.



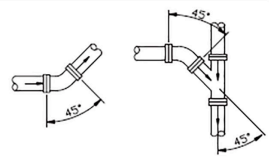
ATTENTION

For best efficiency, never use 90° connections. We recommend that you use the smallest number of possible connections, since these pieces harm the suction. Always use long radio curves and unions for the pipes.

DO NOT USE



USE

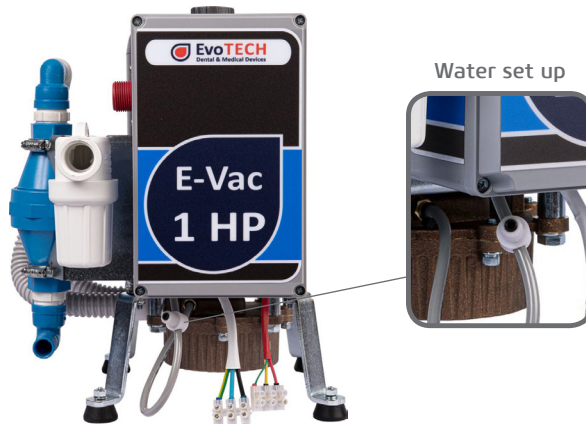


IMPORTANT

Evotech vacuum pumps are compatible with any dental office Brand.

WATER FLOW SETTING

The E-Vac Vacuum Pumps leave the factory regulated for a water flow of 0.4 ± 0.05 l/min, which is the ideal measure to achieve the maximum expected vacuum with minimum engine effort; If it is necessary to change this setting due to oscillations of pressure or water volume, it can be adjusted through the spigot of the Regulator valve, located laterally in the Electrical Components Box, as shown in the figure below.



- a) For larger flow, turn counterclockwise;
- b) For lower flow, turn clockwise;
- c) With a container provided with measurements in milliliters, check that the volume of water expelled from the suction outlet reaches 400 ml in one (01) minute;

ATTENTION

1) Setting the water flow rate higher than recommended:

The water flow is directly related to the motor current; for a greater flow, the current will be larger, to provide a greater suction; However, this implies a greater demand on the engine, which could affect its lifespan.

2) Setting the water flow rate lower than recommended:

For a smaller water flow, the suction capacity will be smaller and the internal temperature of the turbine set will become larger, which can affect the lifespan of the sealing system. (Mechanical seal).

3) Points 1 and 2 are not covered by Evotech Guarantee.

PRECAUTIONS, RESTRICTIONS AND WARNINGS

SAFETY RECOMMENDATIONS FOR PROTECTION AGAINST ELECTRIC SHOCK

Before connecting the vacuum pump, check if the voltage and frequency data indicated on the equipment are in accordance with the values of the local power supply network. Before the connection, both the vacuum pump and the connection cables must be examined to look for any damage. If there are damaged cables or connectors, they must be replaced immediately.

During installation and before carrying out any maintenance work on the vacuum pump, it must be disconnected from electrical power.

EQUIPMENT CONSERVATION RECOMMENDATIONS

Your Evotech equipment was designed and upgraded within the standards of modern technology. All equipment require special care, which is often overlooked for various reasons and circumstances. Here are some important reminders for your day to day. Try to observe these small rules that, incorporated in the work routine, will provide great savings of time and avoid unnecessary expenses.

TRANSPORT, STORAGE AND OPERATION CONDITIONS

The equipment must be transported and stored following below listed remarks:

Be careful, to avoid falling and not receiving impacts.

With protection from moisture, do not expose it to the rain, water splashes or wet floor.

Keep it in a protected place from the rain and avoid direct sun and keep it in its original packaging.

When transporting, do not move it on uneven surfaces and protect the package from the direct rain and respect the maximum amount stacked boxes informed on the outside of the package.

Room temperature range (transport) -10°C to 55°C.

Room temperature range (operation) 10°C to 40°C.

Relative humidity range (transport) 20% to 85%.

Relative humidity range (operation) <75%.

Atmospheric pressure range from 700 hPa to 1060 hPa.

Operating height: <2000m.

SENSITIVITY TO PREDICTABLE ENVIRONMENTAL CONDITIONS UNDER NORMAL USE SITUATIONS

The equipment was designed not to be sensitive to interference from magnetic fields, external electrical influences, electrostatic discharges, pressure or pressure variations, provided that the equipment is installed, maintained, clean, conserved, transported and operated in accordance with this Instruction Manual.

PRECAUTIONS AND WARNINGS DURING EQUIPMENT INSTALLATION

This equipment can only be unpacked and installed by an authorized Evotech technician, under penalty of voiding the warranty, since only he has the information, the proper tools, and the training necessary to perform this task.

Evotech is not responsible for damages or accidents caused by a bad installation performed by a technician not authorized by Evotech.

Only after the equipment has been properly installed and tested by an authorized technician

from Evotech, you are ready to begin your work operations. Install the equipment in a place where it will not be damaged by pressure, temperature, humidity, direct sunlight, dust, or salts.

The equipment must not be subjected to inclination, excessive vibrations, or shocks (including during transport and handling).

- This equipment was not designed for use in environments where there are vapors, flammable anesthetic mixtures with air, or oxygen and where nitrous oxide can be detected. Check the voltage of your equipment when doing the electrical installation. Check if the plug where the equipment will be connected has a ground pin, essential for the perfect operation and safety of the equipment, according to ABNT standard. The equipment must be properly grounded.

Before the first use and / or after prolonged work interruptions such as vacations, clean and disinfect the equipment.

PRECAUTIONS AND WARNINGS WHILE USING THE EQUIPMENT

The equipment must be operated only by duly qualified and trained technicians. (Dental Surgeons and Trained Professionals).

In the eventual need for a maintenance service, use only the services of the Evotech Authorized Technical Assistance.

Although this equipment has been designed in accordance with electromagnetic compatibility standards, it may, under very extreme conditions, cause interference with other equipment. Do not use this equipment together with other devices that are very sensitive to interference or with devices that generate strong electromagnetic disturbances.

The equipment must be properly grounded

Do not subject plastic parts to contact with chemicals used in routine dental treatment. Such as: acids, mercury, acrylic liquids, amalgams, etc. Avoid spilling water or other liquids on the equipment, which could cause a short circuit.

Before starting vacuum pump operation, make sure that the voltage input cable plug is connected to the power supply and that the water supply valve is open.



ATTENTION

Lack of water will damage the mechanical seal and the vacuum pump will not suck. Burning the mechanical seal is not covered under warranty. Never use detergent or any foamy product to internally clean the suction pipe or vacuum pump.



PRECAUTIONS AND WARNINGS AFTER USING THE EQUIPMENT

At the end of the day, close the water valve that feeds the vacuum pump and open the dedicated Circuit Breaker of the Vacuum pump.

Always keep the equipment clean for the next operation.

Do not modify any part of the equipment.

Do not disconnect the cable or other connections unnecessarily.

PRECAUTIONS AND WARNINGS DURING EQUIPMENT CLEANING AND DISINFECTION

Before cleaning the equipment, disarm the dedicated Circuit breaker of the Vacuum pump. Avoid spilling water or other liquids on the equipment, which could cause a short circuit. Do not use micro-abrasive material or steel wool when cleaning, do not use organic solvents or detergents that contain solvents such as ether, stain remover, etc. To avoid the risk of infection, wear protective gloves when handling filters and drains. Eliminate waste and contaminated products in biowaste.

PRECAUTIONS IN CASE OF CHANGE IN EQUIPMENT OPERATION

If the equipment shows any anomalies check if the problem is related to any item listed in the UNEXPECTED - TROUBLESHOOTING topic. If the problem cannot be solved, turn off the equipment, unplug the power cord and contact Evotech Customer Service.:
Phone: (16) 3951-7542 / E-mail: comercial@grupoevotech.com.br

PRECAUTIONS TO BE TAKEN AGAINST THE FORESEEABLE OR UNUSUAL RISKS RELATED TO THE DEACTIVATION AND ABANDONMENT OF THE EQUIPMENT

To avoid environmental contamination or misuse of the Equipment and its accessories / parts after it has been rendered useless, it must be disposed of in an appropriate place (in accordance with the local legislation of the country).
Pay attention to the local legislation of the country regarding the installation and waste disposal conditions.

CORRECTIVE AND PREVENTIVE MAINTENANCE

GENERAL CLEANING

To carry out external cleaning or any type of maintenance, make sure that the equipment is disconnected from the electrical network.



ATTENTION

In order to eliminate safety risks or damage to the equipment, we recommend that no liquid penetrates into the equipment during cleaning.
The application of other solvent based cleaning chemicals or sodium hypochlorite is not recommended since they may damage the equipment

MAINTENANCE, CLEANING AND ASEPSIA

The solids and residues filter is placed in the suction inlet of the vacuum pump and must be cleaned daily. Before cleaning the filter, the enzymatic solution must be suctioned to clean the suction tube and the pump block.

Daily suck 1 liter of water added to the enzymatic solution and later a specific disinfectant solution for dental vacuum cleaners, these products are sold in the main dental offices in the country. Such dilution must follow manufacturer's instructions.



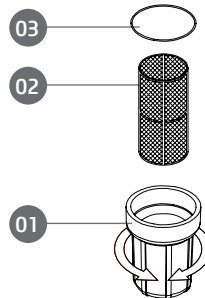
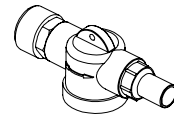
IMPORTANT

After every 200 ml, wait approximately 10 seconds.

CLEANING THE SOLIDS AND WASTE COLECTOR FITER

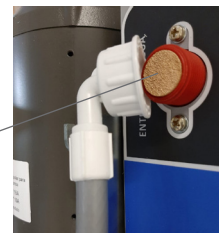
Unscrew the bowl (01), remove the filter (02) and wash. When replacing the filter (02) and the bowl (01), make sure that the sealing ring (03) is in its place.

Afterwards, suck approximately 250 ml of water to maintain the level of water in the bowl (01) to prevent the incrustation of residues in the filter.



CLEANING OF SINTERED FILTER AT THE WATER INLET

Unscrew the hose, remove the sintered filter (04) and wash it with running water. This process must be carried out at least once a month; replace the filter every 6 months.



WARNING

Use protective gloves when handling filters and drains. Eliminate the residues and products contaminated in biological residues.



IMPORTANT

Never avoid placing the filter element in the collector filter. Small fragments are enough to damage the internal components of the vacuum pump, which implies in the loss of the guarantee.

UNEXPECTED – TROUBLESHOOTING



IMPORTANT

Should you find any operational problem, follow the instructions below to check and fix the problem, and/or contact the Evotech Customer Service.

UNEXPECTED	LIKELY CAUSES	SOLUTIONS
- Low vacuum with Insufficient sucking.	- The solids and debris collecting filter is clogged. - The cover of the solids and residues collecting filter is not closed correctly.	- Clean the filter. - Position and reinstall the filter cap correctly.
- When removing the vacuum pipe from the support it is not sucking.	- The solids and debris collecting filter is clogged; - The suction flow adjustment lever is closed; - The feed water supply valve to the pump is closed;	- Clean the filter. - Set the water flow through the handle. - Open the pump water supply valve.
- When removing the vacuum pipe from the support the Vacuum pump doesn't start.	- Circuit breaker disarmed; - Cable disconnected from the power distribution network.	- Arm the circuit breaker. - Connect the cable to the network.
- The pump stops and doesn't start any more.	- The motor is overheated and the thermal relay was activated.	- Wait for the engine to cool down. - Check the voltage and the conditions of the electrical wiring.

FINAL CONSIDERATIONS

Among the precautions you should take with your equipment, the most important is related to the replacement of parts.

To guarantee the lifespan of your device, replace it with genuine Evotech parts. They are guaranteed to comply with the standards and technical specifications required by the representative of Evotech. We call your attention on our network of authorized resellers. Only the Evotech Service will keep your equipment constantly new, and they count with trained technical assistants and specific tools for the correct maintenance of your device. Whenever necessary, request the presence of a technician representing Evotech in the nearest dealership, request it through the Customer Service Evotech: + 55 (16) 3951-7542.

EQUIPMENT WARRANTY

This equipment is covered by the warranty terms and standards contained in the Warranty Certificate that accompanies the product.



September 2021 - Rev_00

Customer Service EVOTECH: (16) 3951-7542

www.grupoevotech.com.br