stomdevice

WE LOVE WHAT WE DO.



BLOK-JET SILENT

Instruction Manual

CATTANI
AIR TECHNOLOGY

english

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

ENGLISH

CONTENTS

General operation data 4

Introduction 7

Signs and warnings 7

Assembly and startup 8

Starting up, testing and instructing personnel. Compressor AC200 and AC300 operation 13

Operation of suction unit Micro-Smart and Turbo-Smart 14

Routine maintenance compressor AC200 and AC300 15

Extraordinary maintenance compressor AC200 and AC300 16

Routine maintenance Micro-Smart and Turbo-Smart 17

Extraordinary maintenance Micro-Smart and Turbo-Smart 18

Instructions for finding and changing parameters of Smart suction unit 20

Configuration of Wi-Fi (wireless) communication 29

Alarm descriptions 33

Important warnings 34

Transport and storage 34

Transport of used equipment 34

Waste disposal 35

Pictures 36

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

GENERAL OPERATION DATA 50/60 HZ BLOK-JET SILENT 1

Model	Micro-Smart	AC200
Nominal voltage	230 V~	230 V ~
Nominal frequency	50/60 Hz	50 Hz
Absorbed power	8 A	7,7 A
Protection level against direct and indirect contacts	Class I	Class I
Method of use	Continuous use	Alternating operation with physical adsorption dryer
Protection against humidity	Common	Common
Absorbed power	1,12 kW	1,2 kW
Maximum air flow	900 l/min	
Max. vacuum with continuous operation	210 mbar	
Rotation speed	60 Hz 120 Hz	at 50 Hz 1400 rpm at 60 Hz 1600 rpm
Air tank		30 litres
Air output with supply at 5 bar		160 N l/min
Maximum pressure		8 bar
Sound output Blok-Jet Silent 1	57,5 dB (A)*	
Approx. dimensions Blok-Jet Silent 1	L= 727 mm P= 577 mm H= 1583 mm	

* Sound output level detected according to ISO 3746-1979 (E). & Kjaer type 2232.
Parameters: r= 1.5 - background noise: 34 dB(A) - Instrument: Brüel

cod. ed. 09-2021

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

ENGLISH

GENERAL OPERATION DATA 50/60 HZ BLOK-JET SILENT 2

Model	Turbo-Smart "B"**	AC300
Nominal voltage	230 V~	230 V ~
Nominal frequency	50/60 Hz	50 Hz
Absorbed power	7,5 A	10,2 A
Protection level against direct and indirect contacts	Class I	Class I
Method of use	Continuous operation	Alternating operation with physical adsorption dryer
Protection against humidity	Common	Common
Absorbed power	1,8 kW	1,5 kW
Maximum air flow	1700 l/min	
Max. vacuum with continuous operation	210 mbar	
Rotation speed	70 Hz 110 Hz	at 50 Hz 1400 rpm at 60 Hz 1600 rpm
Air tank		45 litres
Air output with supply at 5 bar		238 N l/min
Maximum pressure		8 bar
Sound output Blok-Jet Silent 2	55 dB (A)*	
Approx. dimensions Blok-Jet Silent 2	L= 757 mm P= 607 mm H= 1936 mm	

*Sound output level detected according to ISO 3746-1979 (E). Parameters: r= 1.5 - background noise: 34 dB(A) - Instrument: Brüel & Kjaer type 2232.

**Password must be ordered separately and its cost is not included in that of Blok-Jet Silent 2.

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

GENERAL OPERATION DATA

~	Alternating current	IEC 417-5032
⏚	Protective earth	IEC 417-5019
	Protection level against direct and indirect contacts	CEI EN 60601-1
○	Open (disconnection from power supply mains)	IEC 417-5008
I	Closed (disconnection from power supply mains)	IEC 417-5007

~	Alternating current	IEC 417-5032
3N ~	Three-phase alternating current with neutral	IEC 335-1
⏚	Earth (operation)	IEC 417-5019
PE	Protective conductor	CEI EN 60439-1
N	Neutral conductor	IEC 446
ϟ	Dangerous voltage	IEC 417-5036
○	Open (disconnection from power supply mains)	IEC 417-5008
I	Closed (disconnection from power supply mains)	IEC 417-5007

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

INTRODUCTION
SIGNS AND WARNINGS

INTRODUCTION

The purpose of the following presentation is to illustrate the assembly and start-up of Blok-Jet Silent and to inform users about the dangers and the precautions to prevent them. This manual must be available for reference at all times during assembly, start-up, operation and maintenance of your Block-Jet Silent. Updated manuals are available from our website **www.cattani.it** . We recommend you refer to these especially for the latest **safety** updates.
This device is designed for professional use, therefore it must be operated only by adequately trained, specialized personnel.

SIGNS AND WARNINGS

	Read the manual before you assemble the device
	Danger of electrical shock, even 230V ~ can be fatal
	Biological hazard: infections from epidemic diseases
	Generic danger sign
	Heavy-duty personal protection equipment
	Personal protection equipment for biological hazard
	High temperatures
	No corrosive, flammable or explosive substances allowed in the room
	Obligatory direction of flow or rotation

It is not always possible to describe hazards with a sign, therefore users must read the warnings and comply with them.
Failure to comply with a sign or a danger warning may cause harm to the operator or to the patient.
Do not remove accident-prevention devices, do not alter the machine or its operation.

Despite our best efforts, danger warnings may not be exhaustive; if you find that this is the case, please arrange for any danger sources that we may have overlooked to be indicated and kindly notify us.

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

ASSEMBLY AND STARTUP

RECOMMENDED PRECAUTIONS

Before opening the packaging check carefully for signs of damage and verify that the Shockwatch indicator is not red. If it is red, accept the delivery "with reservations" after making sure that the equipment is in perfect condition.
Once you have removed the equipment from the packaging, dispose of packaging materials in compliance with current regulations. Installation must be performed by a skilled person using suitable tools.
The Blok-Jet Silent unit must be placed in a clean area, away from heat sources, humidity and dust. Temperature in the plant room must be between +5 °C and +35 °C.
If ventilation or air conditioning is needed in the plant room, the ventilation or air conditioning system should be designed by a thermal engineer. The plant room must not be accessible to patients or the public. Put into place protections and danger signs in order to prevent accidental contact as this can cause electric shock and, in some rare but possible situation, fire, explosion, leakage of contaminated liquids and air.
No flammable material should be stored in the plant room; ensure that there is no possibility of gas leaks in the room. Do not connect damaged equipment to the power mains; do not use extension cords, multiple sockets or plugs. Before connecting the unit to power mains, ensure that the line conforms with C.E.I. 64-8 standards and that there are two thermal switches with 16A differential with class "A" or "B" in accordance with EN 61008-1.









https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

ASSEMBLY AND CONNECTIONS

Blok-Jet Silent 1 and 2 are designed for surgeries that need to reduce footprint and noise, they can be installed indoor provided the air exhausted by the suction unit is conveyed outside and the air for the compressor is supplied from the outside. We recommend you treat exhaust air and the air supplied to the compressor with HEPA H14 antibacterial filters.

Compressors and suction units are installed inside the Blok-Jet Silent units.
Blok-Jet Silent 1 is complete with an AC200 compressor and a Micro-Smart suction unit (optional amalgam separator available).
Blok-jet silent 1 is designed to service two chairs simultaneously.
Blok-Jet Silent 2 is complete with an AC300 compressor and a Turbo-Smart version "B" ** suction unit (optional amalgam separator available).
Blok-jet silent 2 is designed to service four chairs simultaneously.

When Blok-Jet Silent 1 and 2 work respectively for 2 and 4 chairs, their software automatically adjusts machine operation for energy consumption to suit the number of users utilizing the suction unit and compressor.

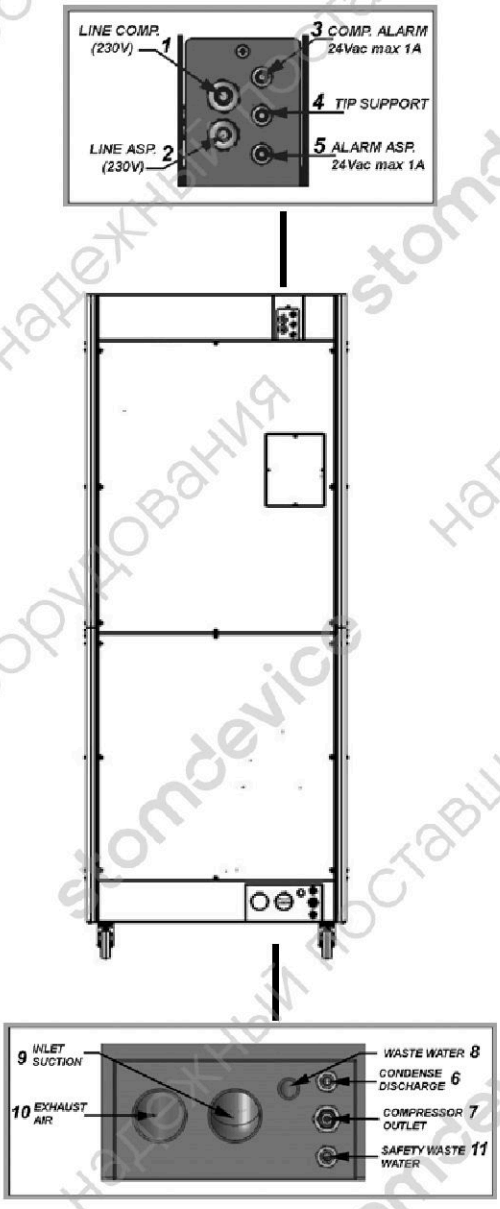




**Password must be ordered separately and its cost is not included in that of Blok-Jet Silent 2.

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

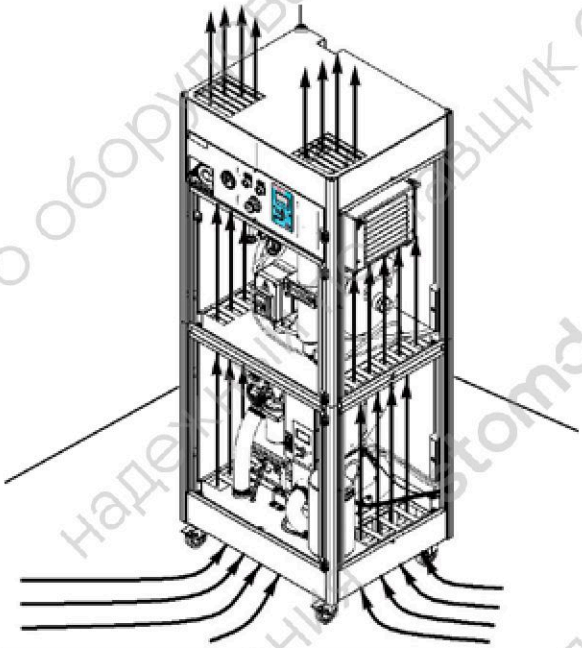
Make sure that the suction tubes are clear from debris. Insert the Ø 50 mm tube provided into "SUCTION" inlet no. **(9)**, connect the suction of the Blok-Jet Silent unit to the central system of the clinic. Connect the Ø 50 mm heat-resistant tube to tube holder **(10)** ("EXHAUST AIR"). Exhausted air can be connected to an antibacterial filter (optional) and to a silencer (optional). Hot exhausted air must be conveyed outside. The liquids separated by the suction unit of Blok-Jet Silent will be conveyed, via the Ø 20 mm hose connected to the WASTE WATER hose connector no. **(8)**, into the drain of the clinic, which needs to be on a lower level. Connect the Ø 8 mm tube holder **(11)** ("SAFETY WASTE WATER") to the liquid drain. The tubes connecting the machine to the suction system are flexible in order to dampen the small vibrations produced by the operation of the suction unit. When Blok-Jet Silent is installed on a lower level than the surgeries, the suction piping must go down to the level of the suction unit, with a couple of metres of piping laid horizontally on the same level before connecting with the suction unit. This will remove the acceleration that the liquids produce when flowing down from the surgeries. Before starting the compressor ensure that the tubes are clean. With the Ø 10 mm tube inserted in tube holder no. **(7)**, connect Blok-Jet Silent to the compressed air system of the clinic. Connect the condensate drain tube provided to tube holder no. **(6)**. Carefully read the data plate on your Blok-Jet Silent, check power voltage and frequency; incorrect power supply can damage the equipment, compromise its operation and cause fire. When assembly is complete, connect the power cable of the suction unit **(2)** and the power cable of the compressor **(1)** in accordance with regulation EN 61008-1. Connect the permissive (clean contact) **(4)** arriving from the dental units. Ensure that the contact is clean (not live). Lastly, connect the alarm signals **(3-5)** to the reception desk.



https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

RECOMMENDED PRECAUTIONS

Blok-Jet Silent is equipped with an internal ventilation system which, taking air from the room, lowers the internal temperature produced by the equipment during operation.
The room will also have to be equipped with a ventilation system, with exhaustion and an inlet for air supply, in order to guarantee a flow that will maintain room temperature in the range + 5 °C to 35 °C. Install the Blok-Jet Silent in a clean environment, away from sources of heat, humidity and dust. When installed outdoors (on balconies, porches and in gardens) protect the machines from rain, water splashes, moisture, freezing temperatures and direct sunlight.

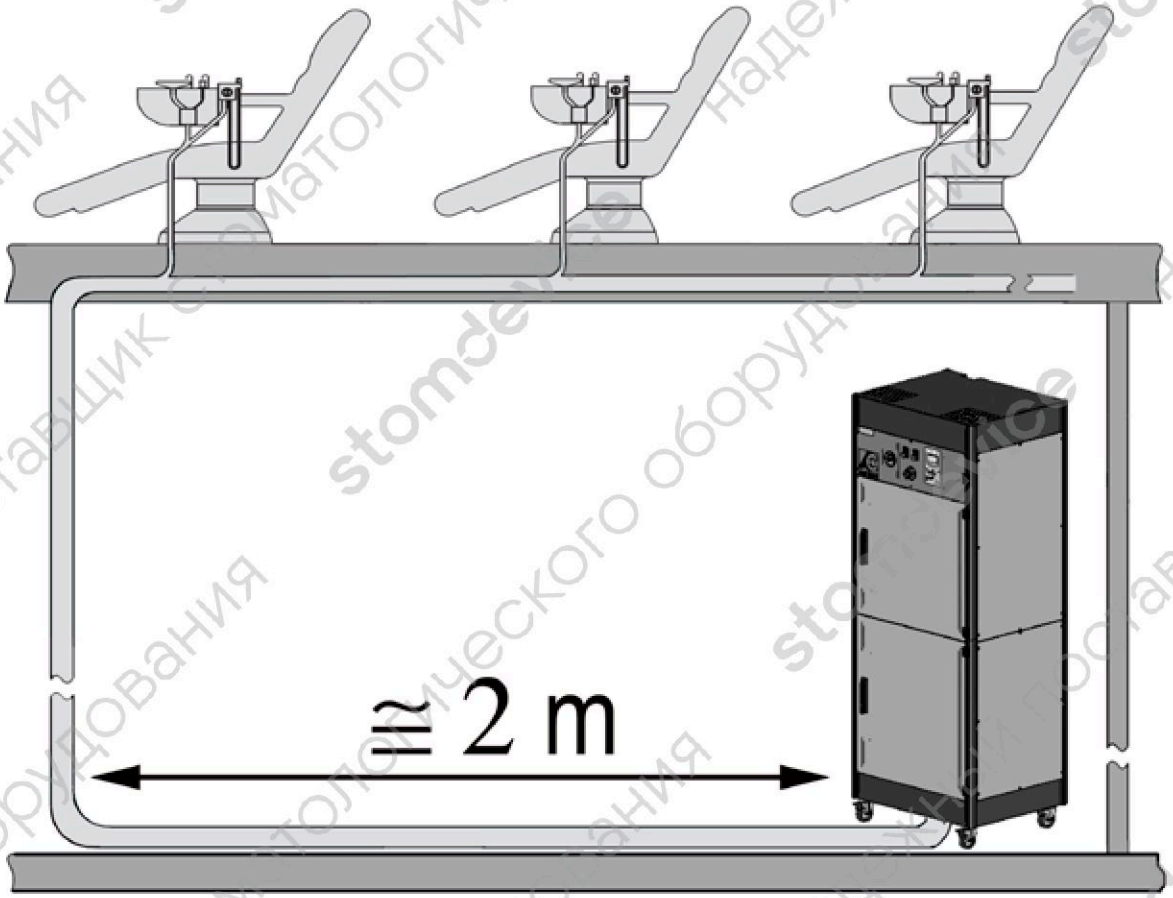




https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

ASSEMBLY

When Blok-Jet Silent is installed on a lower level than the surgeries, the suction piping must go down to the level of the suction unit, with a couple of metres of piping laid horizontally on the same level before connecting with the suction unit. This will remove the potential energy that the liquids produce when flowing downward.



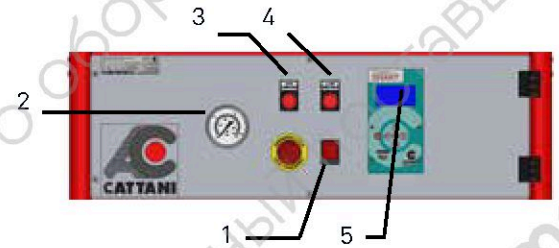
https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

STARTING UP, TESTING AND INSTRUCTING PERSONNEL

COMPRESSOR AC200 AND AC300 OPERATION

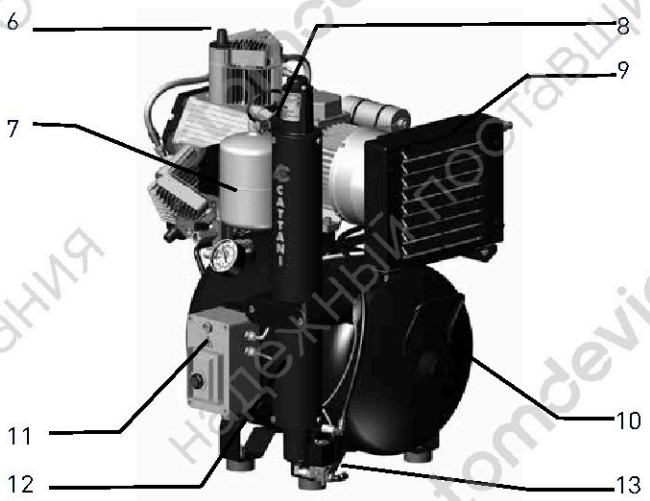
STARTING UP, TESTING AND INSTRUCTING PERSONNEL

Once you have assembled and electrically connected the Blok-Jet Silent, simply switch on the unit **(1)** and send the permissive signal from one of the dental units connected, to activate the suction unit and compressor. The compressor will start and fill the tank to the desired pressure of 8 bar see **(2)**. Instructions to personnel on operation and ordinary maintenance must be given before the unit is used so that it is not contaminated. Surgery personnel must be shown how to follow the stages of operation of the Smart suction unit on the display **(5)**, to interpret danger warnings and light signals **(3-4)** and to correctly carry out maintenance operations with Puli-Jet plus new, Pulse Cleaner and antifoaming tablets.



COMPRESSOR OPERATION

Air enters the cylinder through a filter **6**, undergoes an initial filtration which removes airborne dust, improves its quality and protects piston and cylinder. The piston travels inside the cylinder without lubrication; the material that covers the piston and the material of the cylinder liner are compatible and, despite the relative motion, will not be subject to significant wear. For this reason, our maintenance instructions do not recommend replacing the elastic band and piston at any time throughout the life of the compressor. In the cylinder, air is compressed and heated up to 100/120°C, it is thus necessary to pass it through the air-to-air exchanger **(9)** where, at an ambient temperature of about 20 °C, ΔT at the exchanger outlet will be approx. 5 °C. The compressed air must be cooled in order to reach the dew point, which is a necessary condition for condensation of the water vapour present in the air. In the dryer column, **(12)** air passes through the cyclone where it deposits water, then it goes through a silica gel mix with high adsorbent power, where it is further dried. After leaving the drying column, air passes through two filters: the first one is sintered bronze, the second one polyester; the polyester filter may be replaced with a Hepa H14 filter. The dried and hygienically filtered air goes into the tank **(10)**, ready to be used. The inside of the tank is covered with a certified food grade resin to guarantee good preservation. In this respect, we are still considering whether to use an antibacterial food grade resin. While the tank is filling, air also enters the small tank **(8)** through a selective valve **(7)**. At the end of each charge, the dry air in the small tank counter-flows through the drying column to regenerate the silica gel. This occurs because this return air drags with it all of the water previously removed from the incoming air and conveys it into the bottle. The entire process described above takes place automatically.

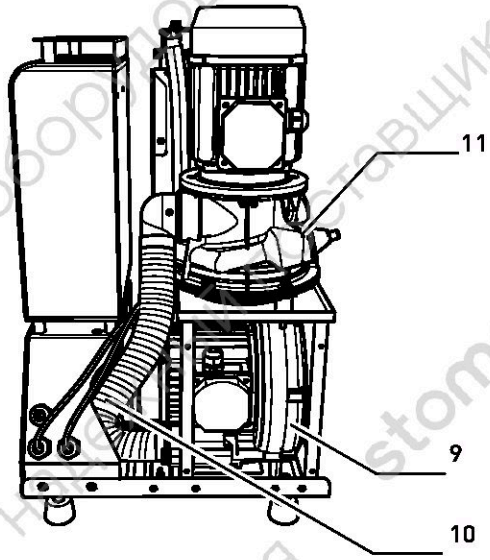


https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

OPERATION OF SUCTION UNIT MICRO-SMART AND TURBO-SMART

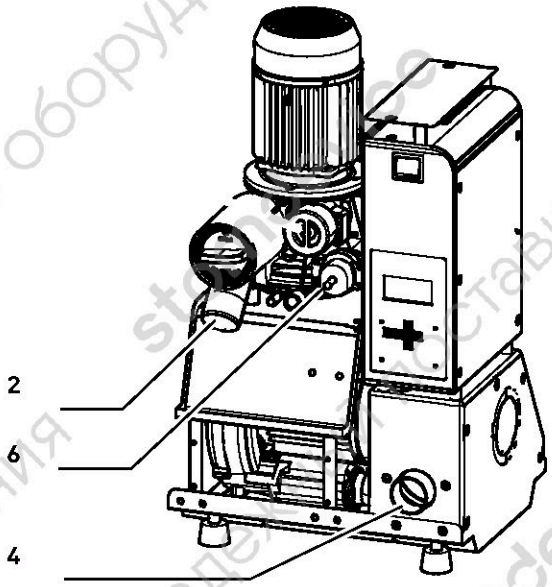
OPERATION

The suction assembly **(9)** (through tube **10**) creates vacuum in the centrifugal separator **(11)**. The fluid received from the surgeries, through the manifold tube **(2)** flows into the centrifugal separator **(11)**.
The centrifugal separator separates air from liquids: the air is exhausted outside through tube no. **(4)** while the liquids (if there is no amalgam separator) are drained into the sewage through the drain tube connected to the tube holder **(6)**.
The centrifugal separator **(11)** starts before the turbine **(9)**, this time delay makes it possible to eject any liquids that may have accumulated in the centrifugal separator, before suction starts. When the machine is switched off, an adjustable timer will keep the suction unit on for 10 to 300 seconds.



IL SEPARATORE DI AMALGAMA ISO

Smart suction units can be supplied complete with our amalgam separator "Idrociclone ISO 18" for Turbo-Smart and "Idrociclone ISO 6" for Micro-Smart. The amalgam separator is always accompanied by an operation and maintenance manual.
We are mentioning them because we would like to point out operation features and benefits, especially in terms of environment protection.
Our amalgam separators "Idrociclone ISO 6" and "Idrociclone ISO 18" have been approved by TÜV for amalgam separation: the first one is approved for 98.9% separation efficiency with 5.5 l/min flow rate, the second one is approved for 98.3% separation efficiency with 18 l/min flow rate.
Both certificates have been issued by the Essen TÜV.



https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

ENGLISH

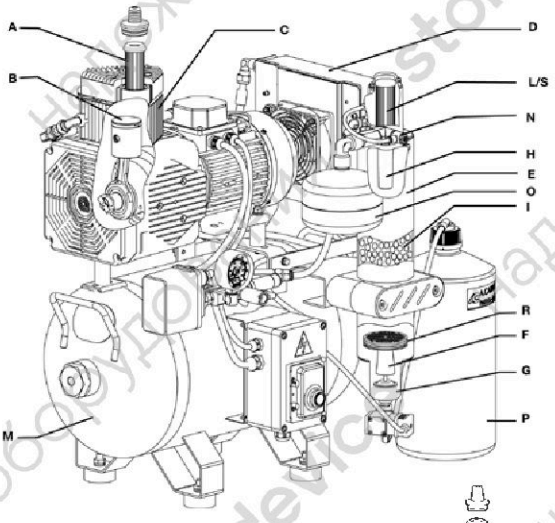
ROUTINE MAINTENANCE COMPRESSOR AC200 AND AC300

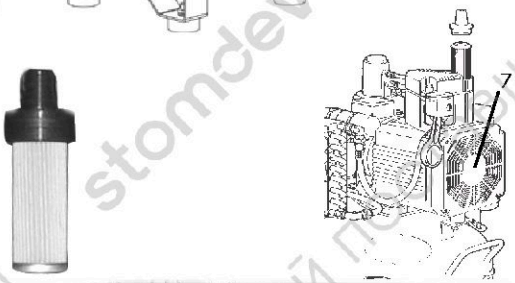
ROUTINE MAINTENANCE TO BE CARRIED OUT BY TRAINED MEMBERS OF THE SURGERY STAFF

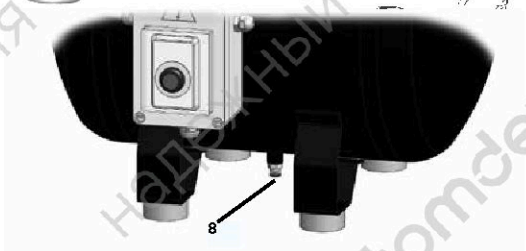
- Danger of electrical shock, even 230 V ~ can be fatal.
- High temperature.
- Generic danger sign.
- Obligatory direction of flow or rotation.



Before getting close to the compressor remove power and make sure that nobody can restore power without informing the person in charge of maintenance. If the compressor is housed in a dusty place where it can suck up solid particles such as dust, sand, dry leaves or other, you should frequently clean the fans of the head **(7)**, the motor **(6)** and the air-to-air exchanger **(4)** as well as clean and replace the filters on the cylinder head very often. Every 12 months, check the efficiency of fans; the compressor cannot operate for long times without adequate ventilation. The tap **(8)**, located under the air tank, must be opened regularly; if you find there is moisture you need to call a technician. Keep in mind that the air-drying system cannot work well with a temperature above 35 °C. The compressor must not start running if air is not used; if that happens, check for leaks in the system or in the machines that use compressed air. The charging time is approximately 45/55 sec.; pause time, required for the regeneration of the silica gel and cooling, takes up about a third of the charging time. Careful monitoring prolongs the life of the machine: when a machine becomes noisy or creates vibrations, it means that something is loose or worn out, in this case call a technician. Based on their experience and on the load of work at the surgery, operators may decide to reduce or increase the frequency of maintenance operations that we have suggested.







https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

EXTRAORDINARY MAINTENANCE COMPRESSOR AC200 AND AC300

EXTRAORDINARY MAINTENANCE
TO BE CARRIED OUT BY A TRAINED AUTHORIZED TECHNICIAN, USING ORIGINAL SPARE PARTS

The frequency of checks is linked to the load of work at the surgery. For surgeries working eight hours a day, five days a week, a visit every twelve months will suffice, provided the machines are also monitored by staff trained for routine maintenance. Technicians in charge of special maintenance operations must use only original spare parts, they must not alter the machines or their operation and must not modify the safety devices. Most importantly, they must not perform welds on the compressor tank. Before intervening, refer to the instruction manual, exploded drawings and wiring diagrams. **Before you get close to the compressor remove power, if the main disconnection switch is far from the compressor and cannot be visually monitored, place a padlock on the switch.**

Make sure that with each charge the compressor reaches the maximum pressure value, the charging time is approximately 45/55 seconds while regeneration and cooling time is a third of the charging time. Check electrical absorption. **Every time the compressor stops, a small amount of dry air is counter flowed to dry the silica gel, if this is not the case check or replace the solenoid valve (13). When the compressor has difficulty reaching steady state, check power voltage and condenser capacity. Every six months check the absorptions with clamp-on ammeter.**

Check for leaks in the machine, in the pipework and in the chairs. Check suction of each cylinder (6 or 8 bar); the air drawn must not be less than 6000 N l/h. Replace any burned out bulbs in the switchboard, replace any relays and contactors that form sparks or that have worn out contacts. Do not alter operation and electrical and mechanical protections. Changes in operating noise may be a sign of malfunction and danger of breaking; it is therefore a good idea to replace noisy heads. Check the temperature in the plant room, with a temperature above 35 °C the air-drying system will not operate correctly. Check that there is no water in the tank or units. Check that routine maintenance is performed correctly, otherwise we recommend that you take responsibility for maintenance, with the approval of the professional or of the owners. Replacement of Hepa H14 filter. The Hepa H14 filter is always delivered with an instruction sheet for filter assembly and maintenance. In an environment with clean air it is sufficient to clean the filters (A) every 12 months. Before servicing the (L/S) filter in addition to removing the current, it is necessary to close the tap that connects the compressor and drain out the air from the tank by opening the tap (8). The Hepa H14 filter cannot be placed in an autoclave. Spare cartridges are available; follow the instructions (included in the filter).

If you need a more detailed description, we invite you to refer to the operation manual of compressor AC200 and AC300. You can find it on our website www.cattani.it in various languages.







https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

ENGLISH

ROUTINE MAINTENANCE MICRO-SMART AND TURBO-SMART

ROUTINE MAINTENANCE

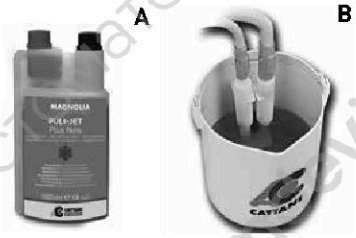
Ordinary maintenance to be carried out by trained members of the surgery staff.
• Be aware of hazard signs and protect yourself with glasses, gloves and disposable overalls.



EVERY DAY

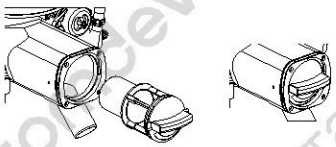
• Check the display for possible alarms, if danger warnings are present contact a technician.
• Every night, aspiration of Puli-Jet Plus New disinfectant solution with antiscaling agent **(A)** using Pulse Cleaner **(B)**;
• **Remove power before you go near the suction unit.**
• Place the antifoaming disinfectant tablets in the filters of the dental units **(C)**.





PERIODICALLY

• Clean the filter of the suction unit.



OCCASIONALLY

• Make sure that the ventilation of the suction unit is not obstructed.
• Keep the plant room clear of material that is not related to the machines, in particular flammable material; ensure that there is no possibility of formation of corrosive, flammable or explosive mixes.

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

EXTRAORDINARY MAINTENANCE MICRO-SMART AND TURBO-SMART

EXTRAORDINARY MAINTENANCE

Extraordinary maintenance is to be carried out by a trained technician, using original spare parts.

- Be aware of hazard signs and wear protective glasses, gloves and disposable overalls.
- Check maintenance condition, ensure that Magnolia products are being used.
- Before working on the equipment, wash repeatedly with Puli-Jet Plus New **(A)**, wait for 15 minutes for the disinfectant to take effect. Disinfect the outside of the machine too.

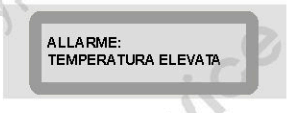
If suction is not working, pour the disinfectant in manually, tilt the machine repeatedly so that the liquid can reach all contaminated parts.

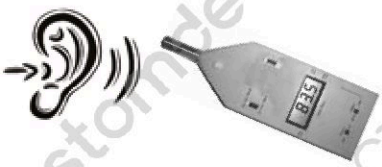


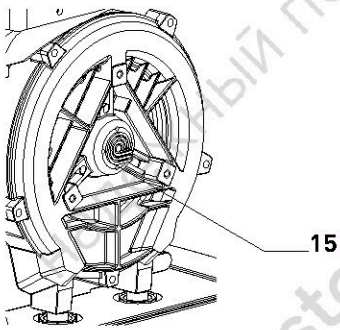


RECOMMENDED CHECKS: EVERY 12 MONTHS

- Check maximum temperatures detected and all alarm signals, intervene accordingly.
- Check noise level of the suction unit, max. 72 dB in accordance with standard 3047(E).
- If needed, clean the electronic components of the circuit with a jet of dry air with pressure not exceeding 2 bar. Use 6 bar pressure to clean the small holes in the front cover of the suction assembly **(15)**;
- Check the plastic tubes, especially those under pressure (coming out of the centrifugal separator 11 and before Idrociclone ISO); we recommend replacing these tubes every 12-18 months.



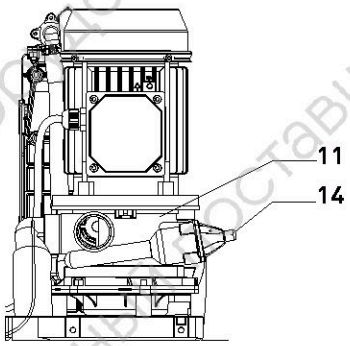




https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

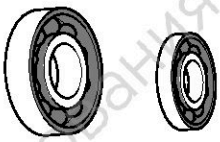
EVERY 18-24 MONTHS

• Check efficiency of centrifugal separator **(11)** and of the recirculation valve **(14)**.



EVERY 10,000 HOURS

• Rubber parts: O Rings, bellows, seals must be replaced every time a part that affects seal is disassembled.
• Replace motor bearings and vibration dampeners.
• If ordinary maintenance is inadequate or unsuitable products are used, instruct personnel and inform the person in charge in the surgery.



If you need a more detailed description, we invite you to refer to the operation manual of Smart suctions units. You can find it on our website www.cattani.it in various languages.

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

INSTRUCTIONS FOR FINDING AND CHANGING PARAMETERS IN THE MENUS OF THE SMART SUCTION UNITS

MAIN MENUS



When the control unit is switched on, the graphic display will show the Cattani logo for 10 seconds, then the main menu will appear.

MAIN MENU"A1"



This menu shows parameters such as operating frequency, time for suction unit activation, temperature, amalgam container (if any) and system software revision.
Press the right arrow ⇨ to access Menu A2.

CONTROL MENU "A2"



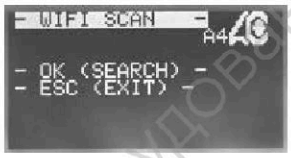
This menu shows: number of times the machine was switched on, total switched-on hours, number of suction unit activations, actual hours of suction unit use, operation hours in relation to frequency and number of fan activations.
Right arrow ⇨

EVENT MENU "A3"



This menu lists the last events or alarms occurred. Events are identified by a number, see table on p.37 for a list.
Right arrow ⇨

WI-FI SCAN MENU "A4"



Here you can scan available Wi-Fi networks.

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

CONTROL MENU "A2"

Counters – Odom . A2

Power Cycles	00000	Number of switch-ons from master switch
Uptime [h]	00000	Total switch-on hours (with motors off)
Work Cycles	00000	Number of activations by suction control
Work Time [h]	00000	Actual operation hours (motors on)
Aspirator [h]	00000	Hours operation in relation to frequency
Fan Cycles	00000	Number of activations of control unit cooling fan

SECONDARY MENUS





Press ⓘ to access the secondary menus
In this menu, press the down arrow to access the following ones ⇩

DRIVE STATUS



This menu can be accessed without a Password; here you can read information on operation.

USER PARAMETERS



To access, enter the password "0000123000".
This allows you to change vacuum level, language, read the Code Generated and access the Activation menu.

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

SYSTEM PARAMETERS SETUP



To access, enter the password "0000456000".
This is where you can adjust switch-off delay and other technical parameters.

FACTORY SETTINGS RESTRICTED ACCESS



Use of this menu is strictly reserved to Cattani.

WI FI SETTINGS



This menu can be accessed without a password; here you can set your Wi-Fi parameters.

KEYING IN AND ENTERING PASSWORD



Drive Status is the only menu that can be viewed without a Password. A password is required to access the User Parameters and System Parameters Setup menus
The password for the "User Parameters" menu is "0000123000".
The password for the "System Parameters Setup" menu is "0000456000".





In the "CATTANI S.p.A." menu, press the → arrow, then the ↑ arrow, the display will show the "Access Password" menu 0000000000



Press Enter, the cursor Ⓘ will appear on 0, on the right.
Press ← and move the cursor to the sixth 0.
Press ↑ and 1 will appear.
Press →, move to the 0 next to it and with ↑ write 2
Press →, move to the 0 next to it and with ↑ write 3

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ



Press Enter ① to confirm the Password and the cursor will disappear.
Press ⇦ to go back to "Cattani SpA" menu.
Now you can change the parameters of the "User Parameters" menu.
Repeat the same procedure to enter the password 0000456000 and access the changes of the "System Parameters Setup".

"INVERTER STATUS" MENU

This menu is visible without entering a password. Its function is to display suction unit status parameters, some of which are listed below.



Blower frequency



Blower output voltage



Blower current



Centrifugal separator frequency



Centrifugal separator output voltage

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ



Centrifugal separator current



System temperature



Maximum temperature detected (can be reset with code 19404 in menu drive commands)



Maximum detected temperature



Power bus voltage



Maximum bus voltage recorded



Ripple bus voltage

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ



Instantaneous vacuum level



Run mode (describes how the machine must operate)

"USER PARAMETERS" MENU



To access this menu, enter Access Password 0000123000 (see instructions on p.21).



Vacuum set point - Vacuum level
Shows maximum vacuum level entered.
Press Enter ⓘ to change, use up/down arrows ⇧⇩
Enter desired value
Press Enter ⓘ to confirm change



Language
You can select Italian (0), English (1), French (2), Spanish (3), German (4) and Russian (5).
Press Enter ⓘ and use arrows ⇧⇩ to select number.
Press Enter ⓘ to confirm change



Generated code
This code is generated by Cattani S.p.A. Each machine has a unique code.



Activation code (if any)

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

"SYSTEM PARAMETERS SETUP" MENU



To access this menu, enter Access Password 0000456000 (see instructions on p.21).
Now you can change some of the settings.
To change the parameters in this menu:
Scroll the menu with the arrows ⇧⇩ to highlight the parameters you want to change.
Press Enter ⓘ to activate the cursor, use the arrows ⇧⇩ to enter the desired value
Press Enter ⓘ to confirm change.
All the parameters can be adjusted:



Minimum vacuum level (only Micro-Smart and Micro-Smart Cube)



Maximum blower frequency for minimum vacuum level (only Micro-Smart and Micro-Smart Cube)



Blower current limit for minimum vacuum level (only Micro-Smart and Micro-Smart Cube)



Medium vacuum level (only Micro-Smart and Micro-Smart Cube)



Maximum blower frequency for medium vacuum level (only for Micro-Smart and Micro-Smart Cube)

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ



Blower current limit for medium vacuum level (only Micro-Smart and Micro-Smart Cube)



Surgery vacuum level (only Micro-Smart and Micro-Smart Cube)



Maximum blower frequency for surgery vacuum level (only for Micro-Smart and Micro-Smart Cube)



Blower current limit for surgery vacuum level (only Micro-Smart and Micro-Smart Cube)



Switch-off delay (max. 300 S)



Pump switch-off delay (max. 3600 t)



Fan switch-off delay (set 150 S)

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ



Options used
Enables or disables reading of amalgam sensor.
0- without amalgam separator
1- with amalgam separator



Commands to inverter.
Reserved for factory settings

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

CONFIGURATION INSTRUCTIONS WI-FI (WIRELESS) COMMUNICATION

Available in models	Notes	
Turbo-Smart (produced from October 2015)	from serial Number WP5xxxxx (new keypad with external display, removable)	
Micro-Smart (produced from October 2015)	from serial Number WM3xxxxx	

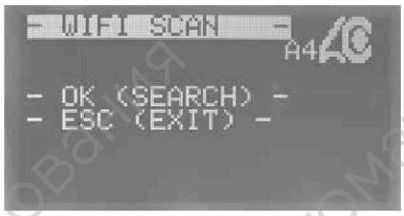
https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

Turbo-Smart and Micro-Smart can be controlled through the **SmartApp**.

SETTING UP CONNECTION AND COMMUNICATION ON THE SUCTION UNIT



When power is switched on, the display will show this picture.
Menu A1
WI-FI OFF



Press to Menu "A4"
WI-FI SCAN



Press and wait for network search



Once the search is complete, it will show all available Wi-Fi networks close to the device.
Select a network using the UP/DOWN arrows, then confirm.



A couple of seconds after you have selected a network, the display will go back to the main menu "A1". Now press enter.

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ



In Menu M0, use the arrows ↓ ↑ to scroll to WI-FI Menu M5.



To access the Menu, press →



Now, the Wi-Fi menu shows in S0 the non-changeable IP address (dynamic IP).



In the Wi-Fi menu to control the selected network n SSID M5 S1.



In Menu M5-S2, you can use the arrows to key in and enter the Wi-Fi router password.
↓ → ⏻

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ



Check that DHCP is set to 1.



Check that M5-S5 is set to 2.



Now, press the left arrow and then EXC to back to Main menu "A1", where you can see Wi-Fi ON.

ESC



When communication with a PC is on, the display will show Wi-Fi DATA.

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

ALARM DESCRIPTIONS

Alarm codes		Description	Solution
00	0	Microcontroller memory alarm	Contact technician
I00	32	Microcontroller memory alarm	Contact technician
I01	33	Short circuit caused by one of the two motors	Check cause of short circuit and remove it
I02	34	Short circuit before motor control	Contact technician (card probably damaged)
I03	35	Failed capacitor charging	Contact technician (replace card)
I04	36	Temperature threshold exceeded	Ventilate plant room
I05	37	Blower current limit exceeded	Check efficiency of blower (shutdown or excessive resistance)
I07	39	Maximum voltage on capacitors exceeded	Check mains voltage max. 260V
S08	40	Centrifuge short circuit	Remove short circuit
S09	41	Short circuit of card in centrifuge outlet	Replace card
S10	42	Instantaneous centrifuge current limit exceeded	Eliminate siphons in pipes or check efficiency of centrifuge (shutdown or excessive resistance)
S11	43	Delayed centrifuge current limit exceeded	Eliminate siphons in pipes or check efficiency of centrifuge (shutdown or excessive resistance)
I13	45	Amalgam reader disconnected	Connect amalgam sensor
I14	46	95% of amalgam level exceeded	Replace amalgam container as soon as possible
I15	47	100% of amalgam level exceeded	Replace amalgam container
I16	48	Vacuum sensor tube disconnected	Connect vacuum tube to centrifuge
I17	49	Thermal protector triggered	Restore temperature in plant room

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

IMPORTANT WARNINGS TRANSPORT AND STORAGE TRANSPORT OF USED EQUIPMENT

IMPORTANT WARNINGS

• The suction unit is covered by a warranty for one year from the date of sale, the compressor for three years, provided the warranty tag is completed with the following information and returned to the manufacturer: date of sale, name of seller and user.

• The warranty and manufacturer's liability shall cease to apply if the equipment is serviced with unsuitable products or products other than those indicated by the manufacturer, used incorrectly or if the equipment is tampered with in any way by persons not authorized by the manufacturer.

• The manufacturer, dealers, agents and authorized technicians are available for advice, suggestions and to provide documentation, spare parts and any other help you may need.

• The manufacturers may decide to introduce changes in the products without notice due to technical needs, product improvement programmes, regulatory or functional problems, difficulty in sourcing parts or semi-finished products.

• Updated manuals are available from our website: **www.cattani.it** . We recommend you refer to these especially for the latest **safety updates**.

• Smart systems and compressors are AEE equipment, thus subject to WEEE (Waste Electrical and Electronic Equipment Directive) regulations.

TRANSPORT AND STORAGE

• During transport and storage, the packaged equipment can withstand temperatures ranging from -10 °C to + 60 °C.
• The packages cannot be exposed to water and splashes and cannot withstand humidity above 70%.

TRANSPORT OF USED EQUIPMENT

• Before packing, we recommend you clean and disinfect the suction unit with Puli-Jet Plus New (see chapters on "Signs and warnings" and "Regular maintenance").

• Drain all tubes and outside/inside communications as liquid residues (even disinfectant) could damage the control unit. Remove the amalgam retention vessel, add the disinfectant, close the vessel with the tight cover.

Dry the suction unit inside and outside, close all outside/inside communications with the stoppers provided, install a new amalgam retention vessel, wrap the suction unit and the control unit separately, to ensure maximum water tightness.

• Place the equipment inside a polyethylene bag and pack with triple-wave cardboard.

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

WASTE DISPOSAL

INFORMATION FOR PROFESSIONAL USERS

• Pursuant to art. 13 law decree no.151 of 25 July, "Implementation of directive 2011/65 UE ROHS and 2003/108/CE on restrictions on the use of hazardous substances in electrical and electronic equipment, as well as disposal of waste".

The symbol showing a crossed out wheeled waste bin, means that electric and electronic equipment in the machine must be disposed of separately. Separate collection of this equipment at the end of its life is organized and managed by the manufacturer. When you need to dispose of this equipment, you must contact the manufacturer and follow the system that the manufacturer has adopted to enable separate collection of the equipment after its useful life.
Adequate separate collection for recycling, processing and environmentally-compatible disposal of end-of-life equipment contributes to prevent possible negative effects on the environment and on health and favours the reuse and/or recycling of the materials with which the equipment is made. Illegal product disposal on the part of the user shall result on the application of the administrative penalties envisaged by current regulations.



https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

WIRING DIAGRAMS BLOK-JET SILENT 1

COMPRESSOR UNIT

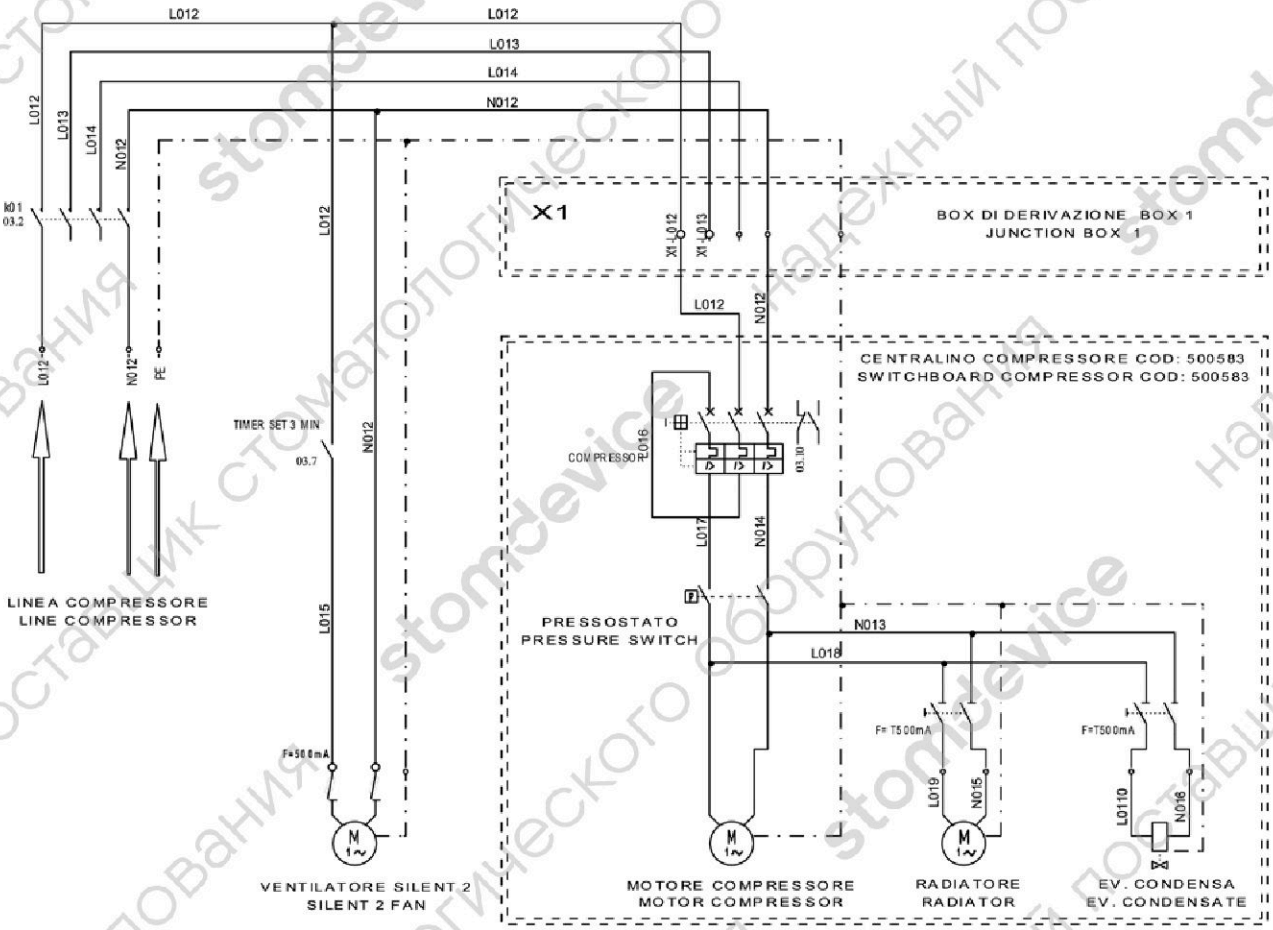
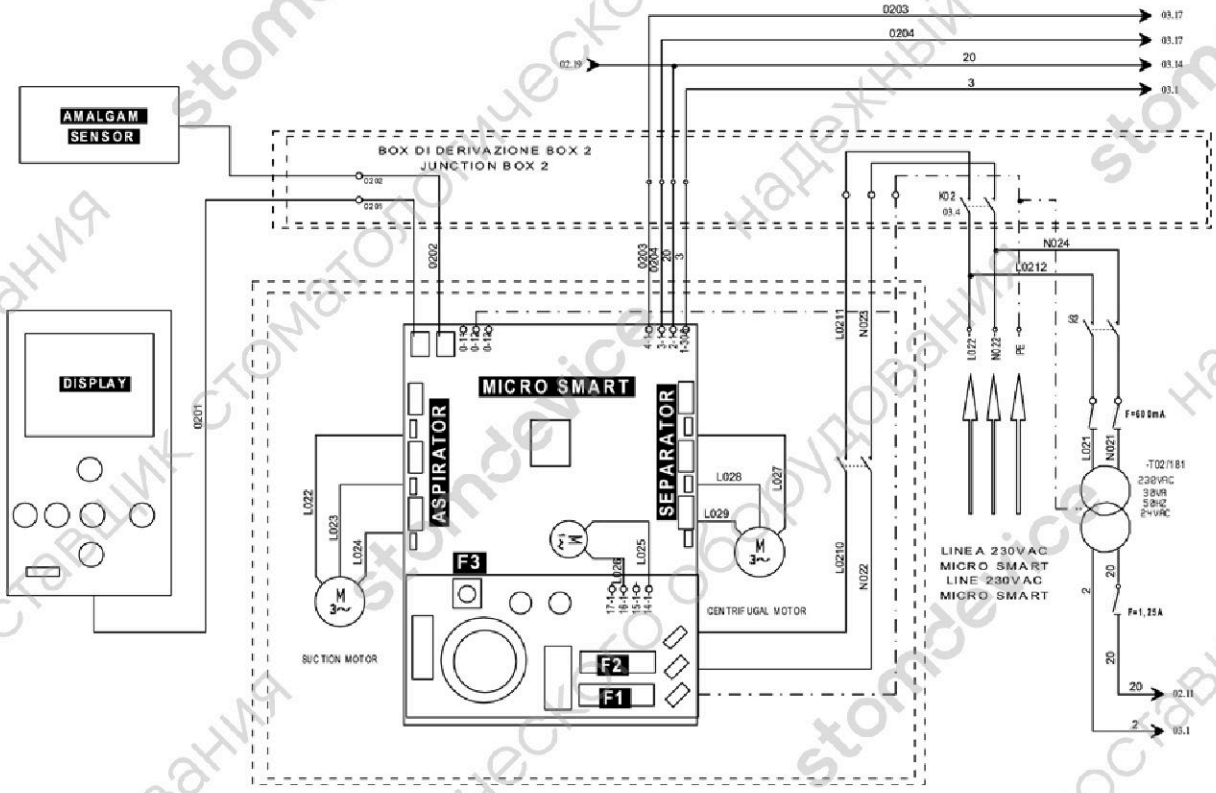


Fig. A

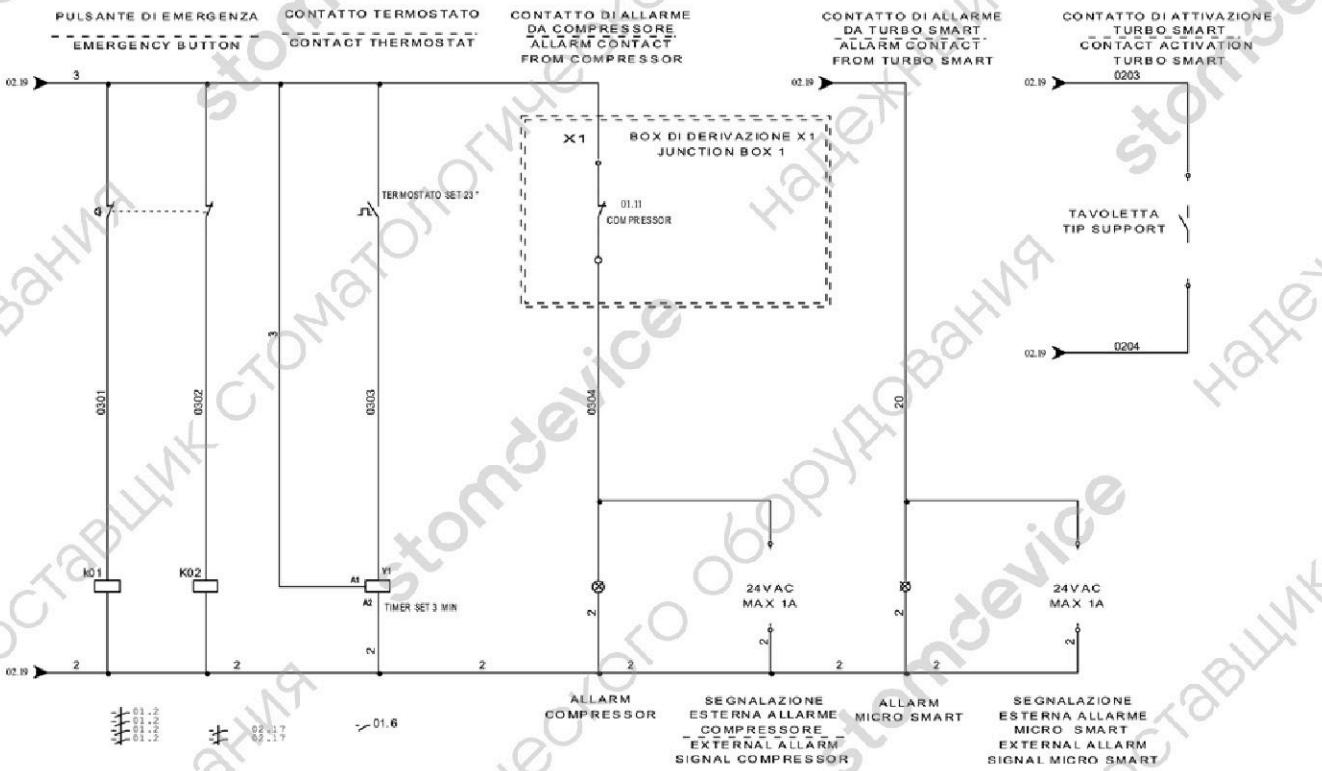
https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

MICRO-SMART UNIT



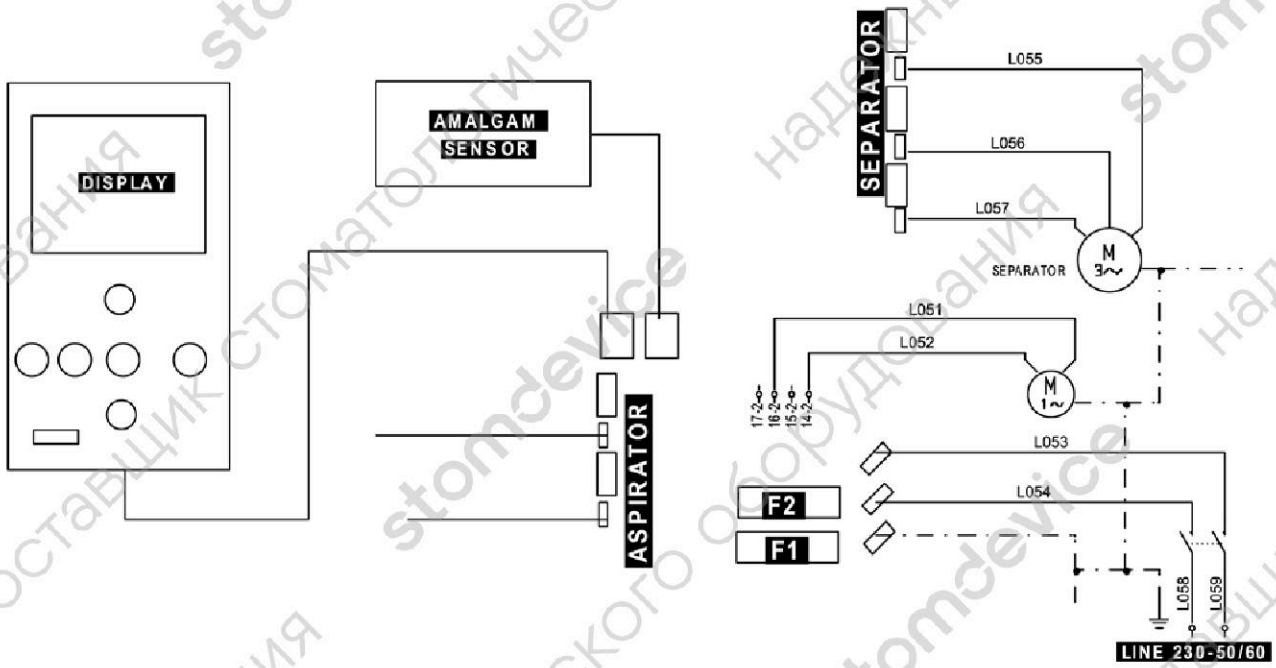
https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

AUX



https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

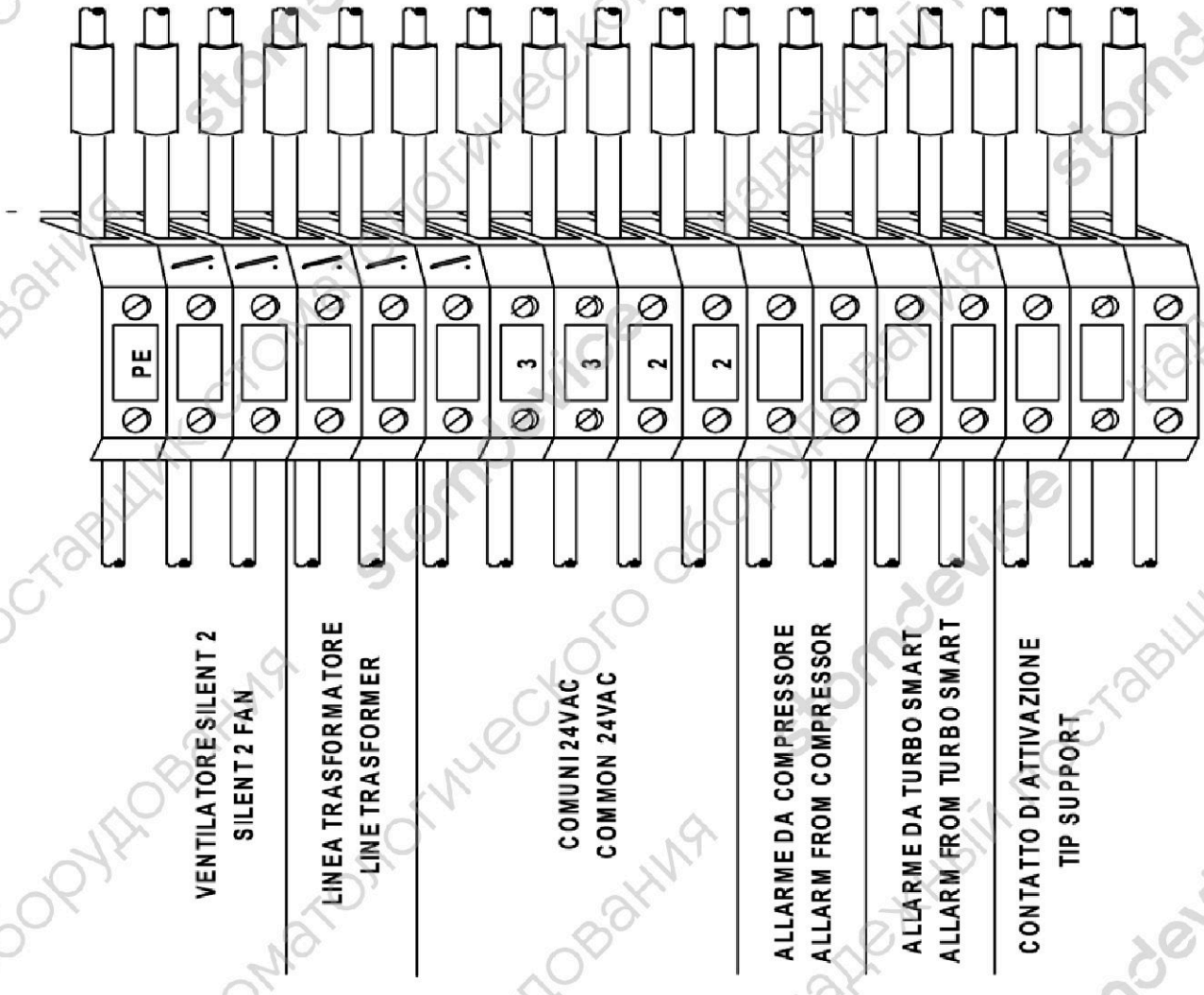
LAYOUT



https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

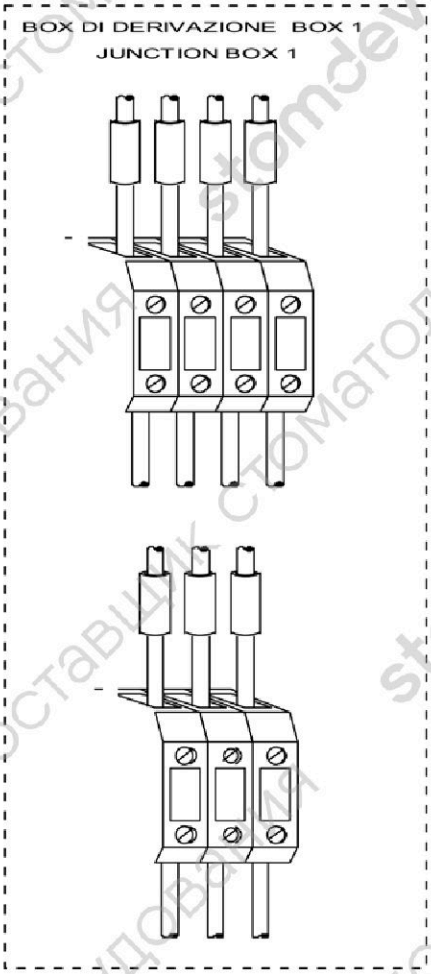
TERMINAL STRIP

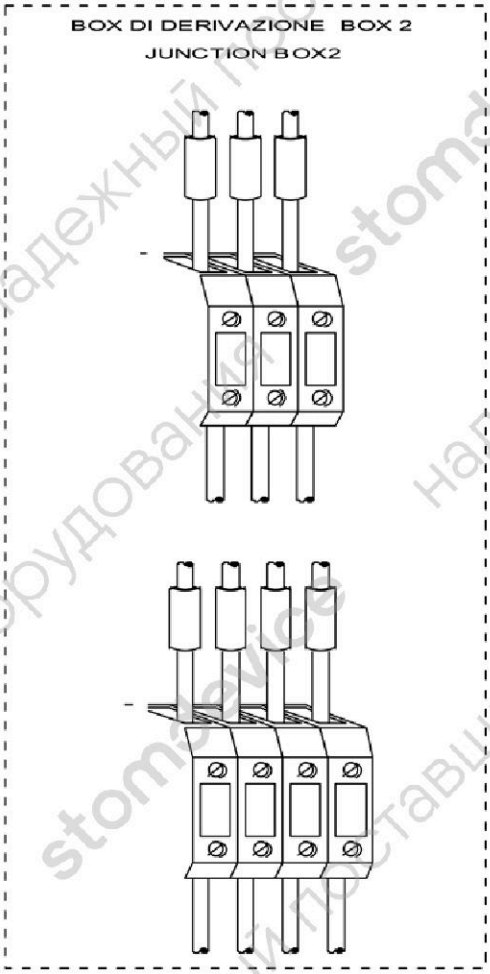
BOX DI DERIVAZIONE C73520
JUNCTION BOX C73520



https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

TERMINAL STRIP





https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

WIRING DIAGRAMS BLOK-JET SILENT 2

COMPRESSOR UNIT

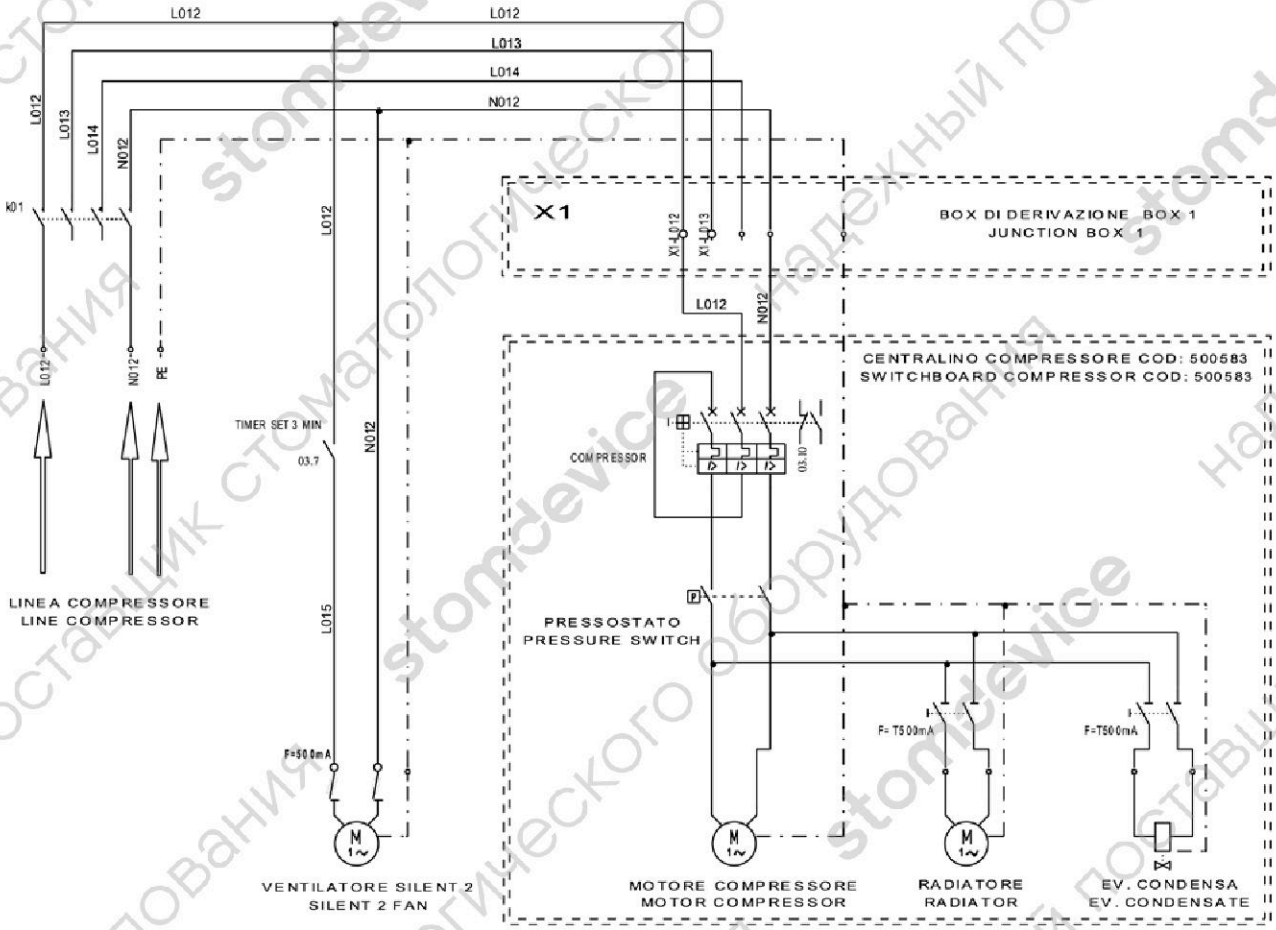
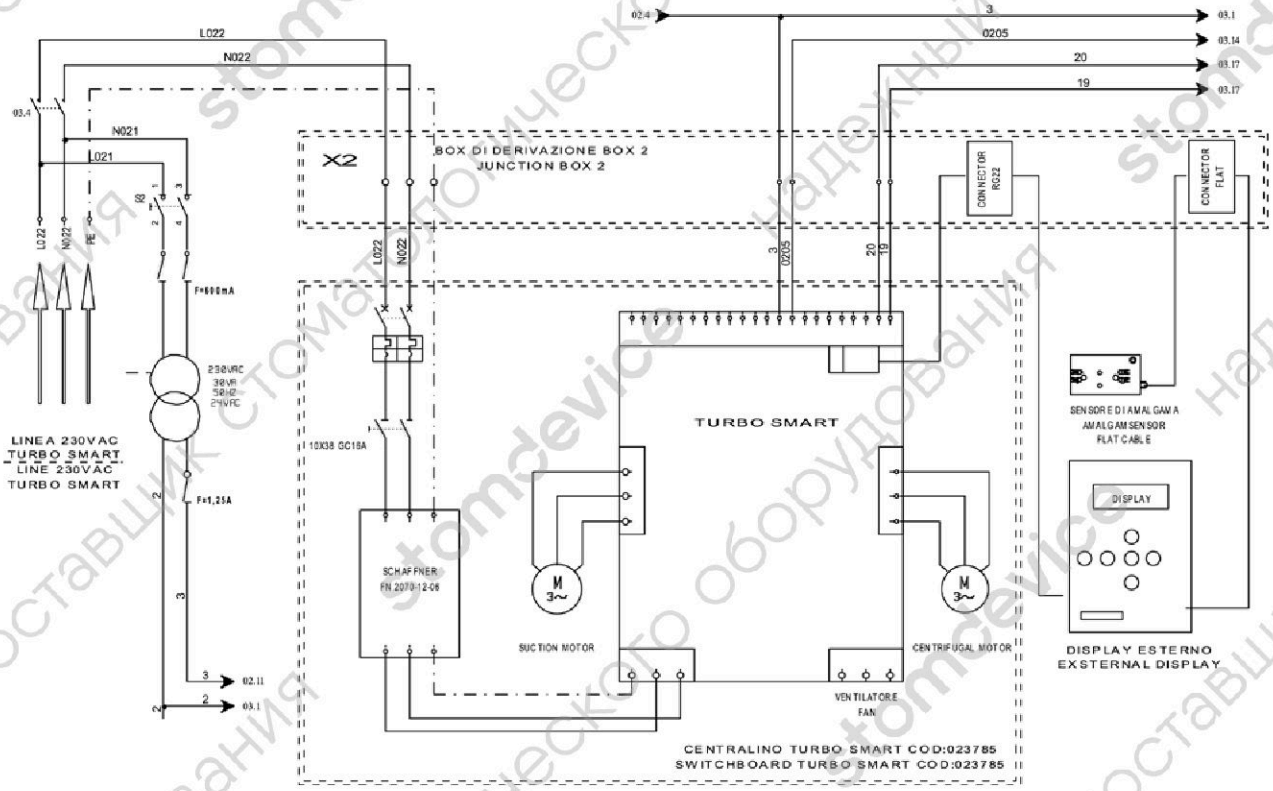


Fig. B

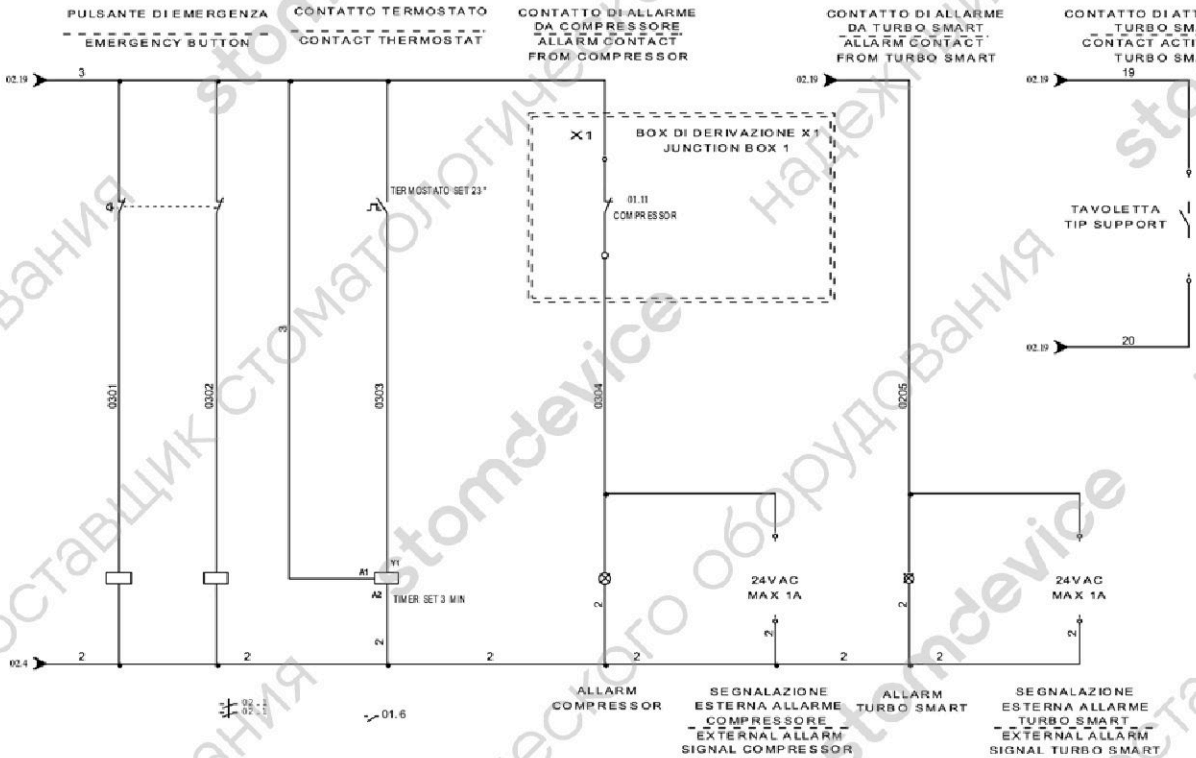
https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

TURBO-SMART UNIT



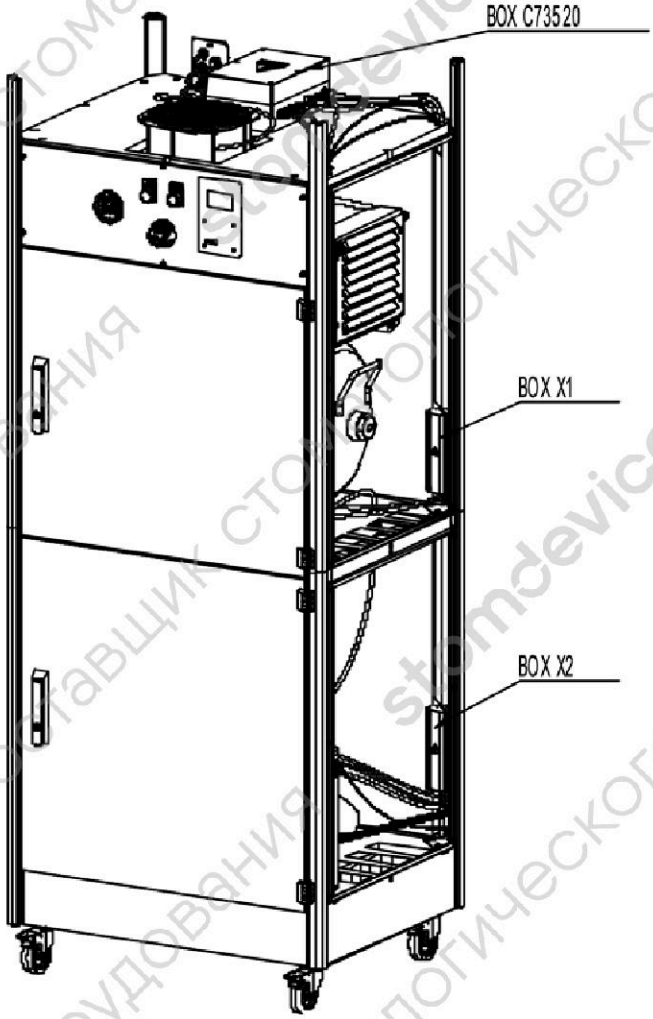
https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

AUX



https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

LAYOUT



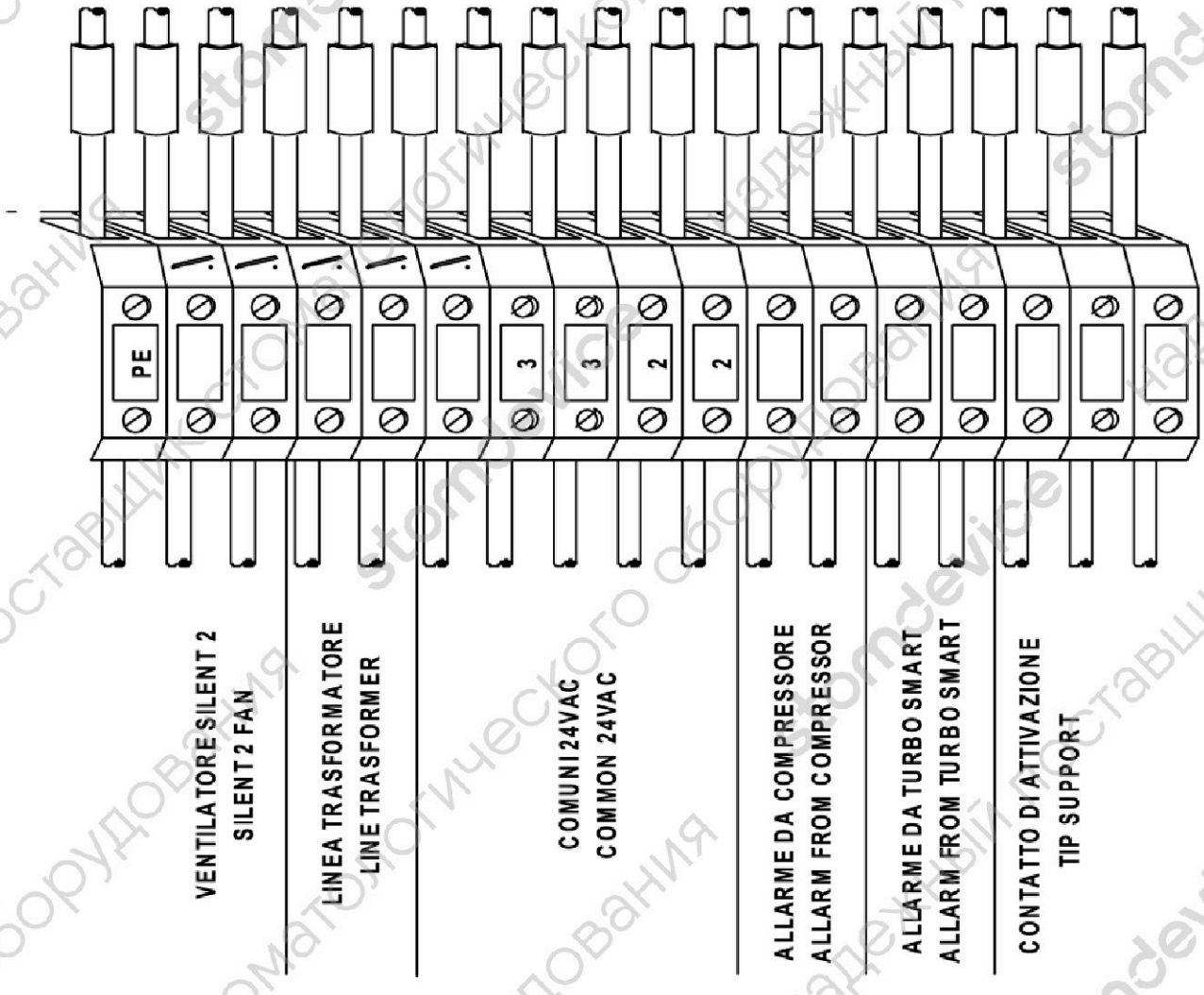
BLOK JET
SILENT 2 COD:073520

POSIZIONI BOX DI DERIVAZIONE
JUNCTION BOX POSITION

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

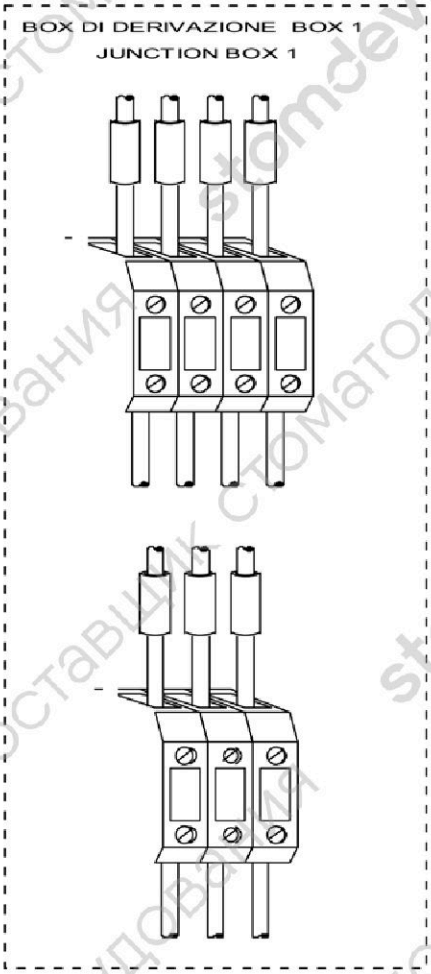
TERMINAL STRIP

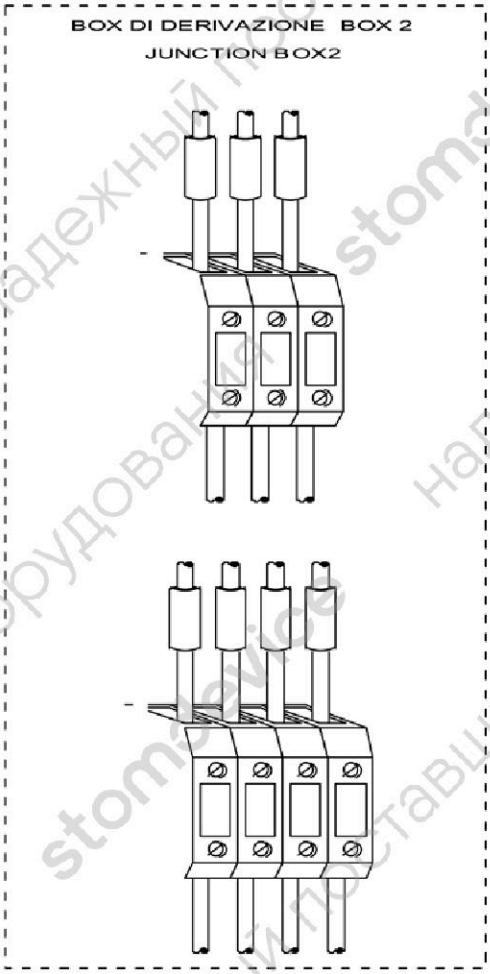
BOX DI DERIVAZIONE C73520
JUNCTION BOX C73520



https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

TERMINAL STRIP





https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

stomdevice

SMART THINKING, THE WAY WE INNOVATE.

WE HAVE BEEN SPECIALISING WITH AIR TECHNOLOGY FOR 50 YEARS:
SPECIALIZATION HAS GIVEN EXCELLENT RESULTS.

Company with Quality System certified = **ISO 9001** = and = **ISO 13485** =

cod: ed. 09-2021

HOW IS IT WE LEAD IN OUR FIELD, WHEN WE COST LESS THAN THE ALTERNATIVES? THIS IS HOW:

Constant research: this enables us to apply the latest technology to all of our products and solutions.
We enhance performance: electronic and information technology enable us to enhance the performance and reliability of our products.
We reduce costs: less maintenance and lower energy costs mean that we are always the most economical on a cost-benefit analysis.
We reduce environmental impact: we save 50% on raw materials, and allow you to save between 30% and 50% on electrical consumption.

Via Natta 6/A 43122 Parma – Italy T +39 0521 607 604 info@cattani.it

WWW.CATTANI.IT

https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ