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MANUALE ISTRUZIONI
OPERATOR'S HANDBOOK
MANUEL D'UTILISATION
GEBRAUCHSANWEISUNG
MANUAL DE ISTRUCCIONES

BLOK-JET SILENT 2

CATTANI
AIR TECHNOLOGY

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Blok Jet Silent 2

Intended purpose:

Blok Jet Silent 2 is a semi-wet suction system and dental compressor intended for use in dental clinics.

PLEASE NOTE:

- The Blok Jet Silent 2 must be installed inside the clinic, with an ambient temperature of +5 to +25 degrees celcius.
- This is a manual supplement only – **please read the accompanying manual published by Cattani S.p.A. supplied with the unit prior to use** (contact Cattani Australia if you do not have it).
- This unit can only be installed, maintained or worked on by a trained and competent technician.

Installation – Electrical:

- This unit should be supplied by 2 X dedicated 240V General Power Outlets (GPO), which are protected by a Residual Current Device (RCD).
- This unit should be powered off when the clinic is not in use (i.e. power to the circuit should be isolated off overnight).
- Please note that there are two power supplies – both must be isolated before any maintenance or work is carried out (and by trained and competent persons only).

Installation – Drain Connection:

- The drain of the Turbo SMART must be connected to a drain as per the requirements of AS/NZS 3500.
- The drain the Turbo SMART connects to must be connected to waste via Watermarked Water Seal (i.e. trapped drain that carries the Watermark logo).
- The drain hose, hose clamps, and tube end (included in the 'plumber's kit' supplied with this unit) must be used to connect the fluid outlet to drain. All fittings must be tightened and secured. We recommend that the threaded plastic fittings be tightened with Teflon tape.
- Once the unit has been installed, aspirate no less than 6 litres of water through the surgery suction and observe the unit and connection to drain for any leaks. Any sign of leaks must be remedied so that the connections are sound and have no leaks.

Installation – Exhaust Connection:

- The exhaust connection must be run away from the plant-area, the air-inlet of the air-compressor/s (and any other equipment that has air inlets) and any habitable area, as per "ISO TC 22595-1 2006 Dentistry Plant Area Equipment Part 1 Suction Systems".
- If the above cannot be achieved, a bacterial filter must be fitted to the exhaust air.
- The exhaust air line should be protected from the ingress of fluids (i.e. dog leg on outlets to protect against rain entering).

For information on the Cattani Warranty, please consult the Warranty Statement included on the outer packaging of this unit, or download it from www.cattani.com.au/support.php by selecting 'warranty information' in the 'Choose Category' dropdown menu. Alternatively, you can phone Cattani Australia on 03 9484 1120 for a copy to be sent to you.
Please phone the Cattani Tech Support Team on 03 9484 1120 if you would like any further information.

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BLOK-JET SILENT 2

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• General running data

Model	3 cyl. compressor	Turbo-Smart "B"
Rated voltage	230 V ~	230 V ~
Rated frequency	50Hz	50/60 Hz
Rated current	10.2 A	9 A
Tipo di protezione contro i contatti diretti e indiretti	Classe *I*	Classe *I*
Operating conditions	Continuous operation	
Protection against ingress of liquids	Ordinary	
Motor: output power	1.5 kW - 10,2 A	1.5 kW - 9 A
Max. flow	238 N l/m	105 m^3/h
Max pressure	8 bar	
Max. head for continuous service		2000 mm H_2O
Sound pressure	54 dB(A)	
Dimensions (mm)	L = 760 D = 650 H = 1935 net weight 270 kg	

~	Alternating current	IEC 417-5032
⏚	Earthing	IEC 417-5019
	Degree of protection against electric shock	IEC 60204-1
○	Open (disconnected from the main electrical supply)	IEC 417-5008
I	Closed (connected to the main electrical supply)	IEC 417-5007

Sound pressure level tested according to the standard ISO 3746-1979 (E).
Parameters: r = 1,5 – background noise: 34 dB (A) – instrument Bruel & Kjær type 2232

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• Warnings symbols

• Symbols and warnings

• *Danger of electrocution. 230 V ∿ can result in death.* 

• *Biological danger, risk of endemic diseases.* 

• *General danger warning.* 

• *Personal Protective Equipment for heavy work loads.* 

• *Personal Protective Equipment for biological risks.* 

• *High temperature.* 

• *Area in which flammable, corrosive and/or explosives are forbidden* 

• *Mandatory direction of flow and of rotation* 

Warning signs cannot always fully express danger warnings, therefore it is necessary that the user reads the warnings and keeps them in due consideration.

Failure to observe a danger sign or warning may harm operators or patients.

Safety devices must not be removed. Appliances or their functioning must never be modified.

Despite all our efforts, it is still possible that danger warnings are not exhaustive: we apologise to the users and kindly request them to care for all danger sources that might have passed unnoticed and to inform us accordingly.

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• Assembly and commissioning

• Recommended precautions

Before unpacking the appliance, check the warning shock-watch on the carton. In case of it being red or the carton being damaged, accept the material reserving the right to examine the machine.

Unpack the appliance following the instructions shown on the package. The carton is recyclable. Dispose of it in compliance with regulations in force.

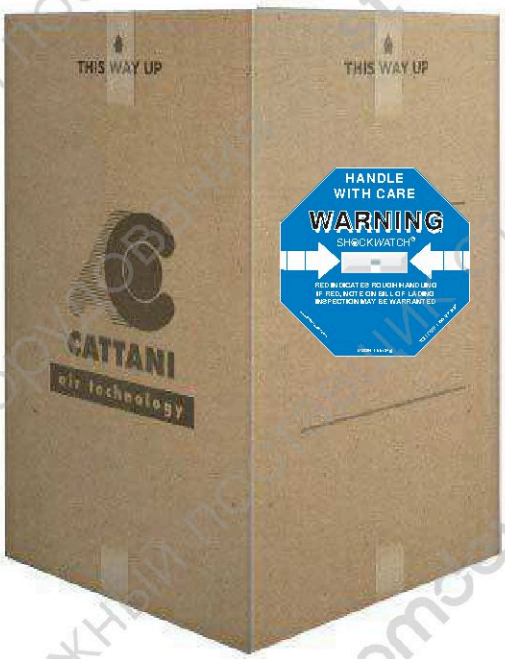
The machine installation must be carried out by a specialist equipped with the necessary tools. Install the appliance in a clean location, far from heat sources, humidity and dust. Turbo-Smart can be installed outdoors (on a balcony, in veranda or gardens), provided that it is sheltered from rain, splashing, humidity, frost and direct sunshine.

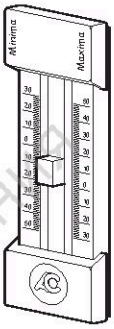
For outdoor installation we recommend the use of our special designed box fitted with double isolating roof, anti-freeze and ventilation systems (both fitted with fixed thermostat for automatic temperature control).

In the plant room temperature can range from a minimum of + 5 °C to +35 °C max.

Turbo-Smart fitted with box, for indoors our outdoors installation, can be supplied with antifreeze device. In case the plant room must be ventilated or air-conditioned, we suggest to contact a thermo-technician for a personalized project. The plant room must be closed to patients and extraneous people. If such a room is not available, machines must be protected by a suitable cover, which must not be easy to remove. Use protections and danger warning boards to prevent accidental risk from electrical shocks or the possibility (unlikely but not excludible) of fire, explosion and contaminating air or liquid leakage. Use indoors and outdoors boxes designed and produced by the manufacturer of the machines only.

Keep the plant room free from flammable material. Make sure that there is no possibility for gas leakages. Do not connect damaged appliances to the mains. Do not use extension leads, multiple plugs or sockets. Before connecting the machine to the mains, ascertain that the feeding line is complying with the regulations C.E.I. 64-8 and that a thermal switch and a residual current operated circuit-breaker (class A or B) **(16A)** according to the regulations EN 61008-1 are present. Light coloured, wooden, linoleum, rubber or marble floors can change colour or get marked if they are kept in contact with rubber vibration-proof devices **(1)**. Therefore, it is necessary to use a rubber sheet or some other suitable material to isolate vibration-proof devices from the floor.











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• Assembly and commissioning

• Connection and commissioning

Verify that aspiration tubes are free of silt, or other foreign matter.

Connect one end of the supplied tube (50mm, grey) to the flange "INLET SUCTION" (9) of the Blok Jet Silent 2, and the other end to the clinic's suction pipe.

The supplied 50mm tube (black) is designed for high temperatures and must be connected to the flange "EXHAUST AIR" (10). The exhaust air connection can be fitted to a HEPA antibacterial filter (optional) and a silencer (optional). Exhausted air is hot, and therefore must be conveyed outside of the area.

Liquids separated by the Blok Jet Silent 2 exit through the flange "WASTE WATER", to which the 20mm supplied tube must be connected. This tube must be connected to a drain in the clinic, which must be at a level lower than the outlet.

The tube that connects the machine to the clinic's suction line are flexible to absorb the small vibrations generated by the running of the unit.

When Blok Jet Silent 2 is installed at a level lower than the surgeries, the suction pipeline must run down to the floor level on which the Blok Jet Silent 2 sits, and include a horizontal run of no less than 2 meters along the floor before connecting to the Blok Jet Silent 2. Such configuration reduces the thrust of fluids generated by the fall in the pipeline before entering the machine.

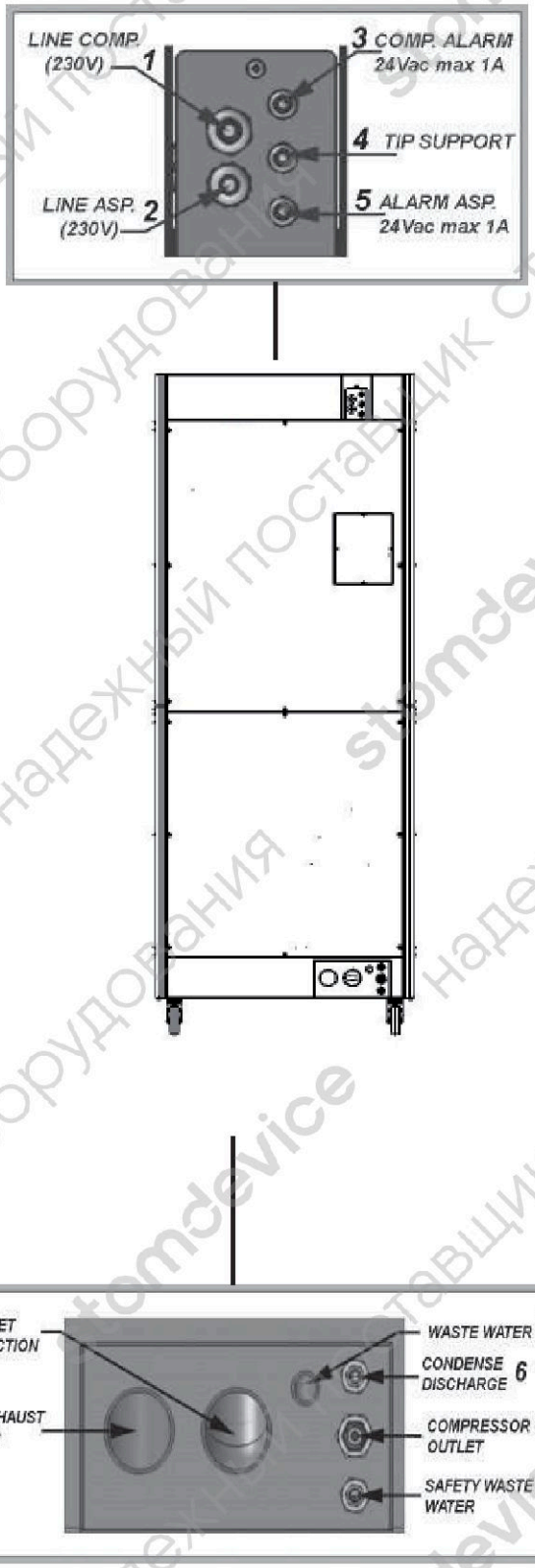
Prior to commissioning the compressor ensure that the airlines are clean.

Connect the supplied 10mm tube to the connection "COMPRESSOR OUTLET" (7) on the Blok Jet Silent, and the other end to the clinic's compressed air connection point. Connect to the flange marked "CONDENSE DISCHARGE" (6) the condensation waste tube (supplied with unit).

Carefully read the data on the Blok Jet Silent 2 nameplate, and ensure that the supply voltage and frequency are correct. Incorrect supply can damage the machine, compromising operation and/or risking fires.

Once connections have been made, connect the power cable of the suction unit (2) and the compressor (1) to the electrical supply, in accordance with EN 61008-1. Connect the switchwires (clean contacts), (4) from the dental units. Verify that the contacts are volt-free.

Finally, connect the alarm contacts (3-5) to the clinic's monitoring system or a highly visible alarm panel in the clinic.



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• Assembly and commissioning

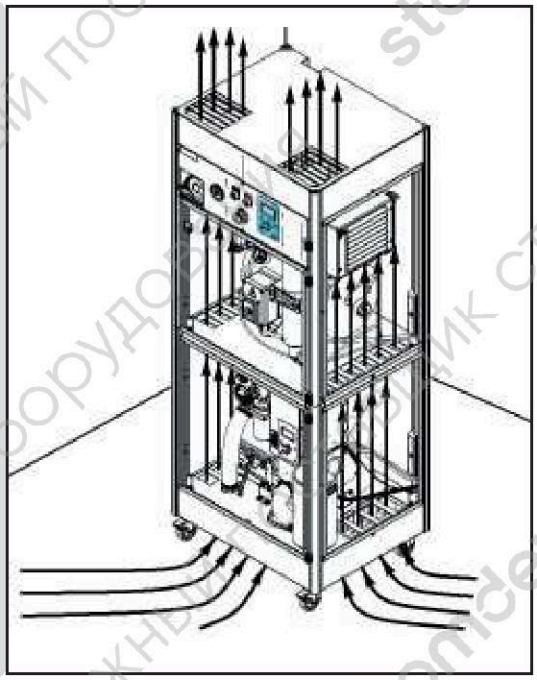
• Recommended Precautions

Blok Jet Silent 2 is fitted with an internal ventilation system, which takes air from the surrounding area and lowers the temperature of the running machines.

The room must be equipped with a ventilation system, with air being extracted at a high point, and air being allowed to enter at a low point. The system must be sufficient to maintain an ambient temperature between +5 - +35 degrees C.

The Blok Jet Silent 2 must be installed in a clean environment, far from heat sources, humidity and dust. For outdoor installations, such as balconies, verandas, courtyards or gardens, the machine must be protected from rain, sprays, humidity, frost and from direct sunlight.

The temperature of the plant-area must not be below +5 and not higher than +35 degrees C.



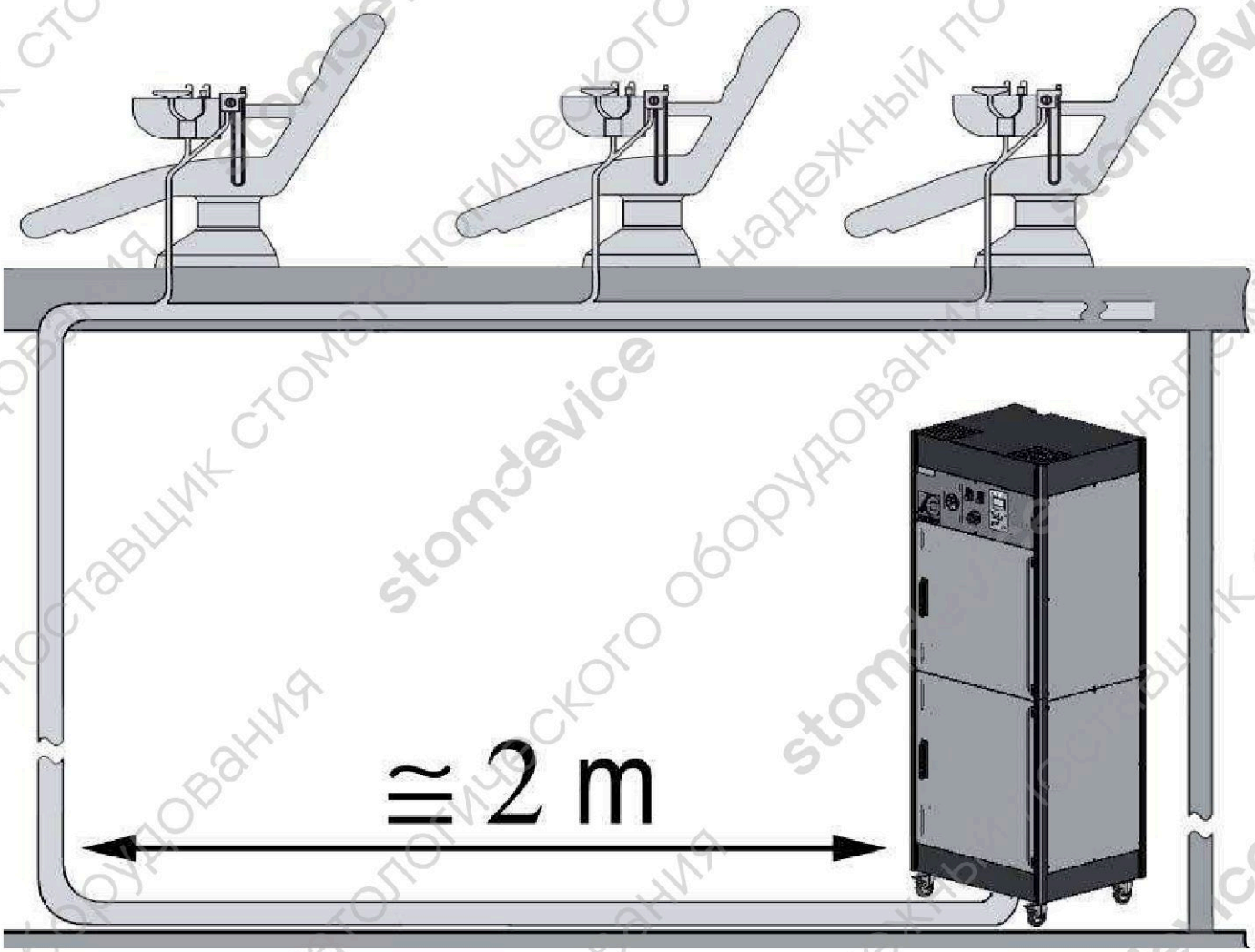


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• Assembly and commissioning

• Installation

When Blok Jet Silent 2 is installed at a level lower than the surgeries, the suction pipeline must run down to the floor level on which the Blok Jet Silent 2 sits, and include a horizontal run of no less than 2 meters along the floor before connecting to the Blok Jet Silent 2. Such configuration reduces the thrust of fluids generated by the fall in the pipeline before entering the machine.

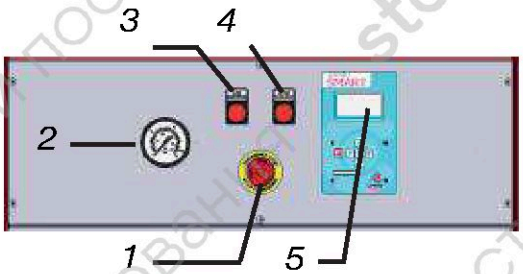


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• How compressor works

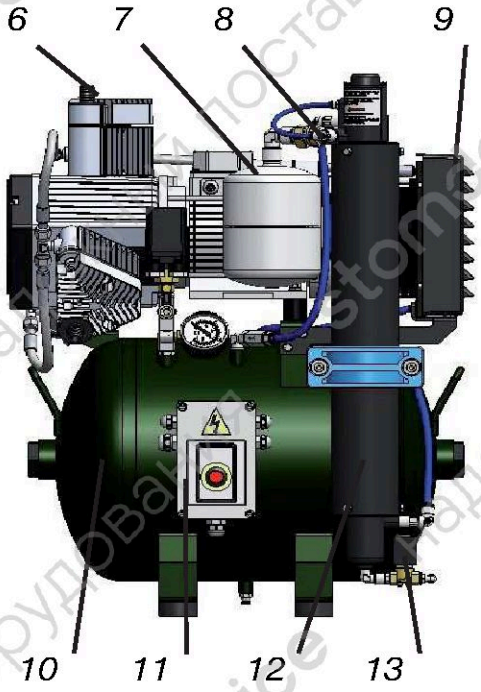
Commissioning, testing and instruction to clinic staff.

Once the Blok Jet Silent 2 is installed and connected to the electrical supply, by rotating the emergency start/stop button (1), the suction unit will be operational, and will start when it receives a signal from the surgeries.
The compressor will start and charge the tank until the set pressure is reached (factory-set at 8 bar) – (2).Instruction to clinic staff on the use and ordinary maintenance of the system must be done on new and uncontaminated units.Clinic staff must be instructed on how to follow on the display (5) the operating phases of the Turbo SMART, and how to interpret the danger warnings a the warning lamps (3 and 4). Clinic staff must also be instructed in the correct maintenance with Pulijet Plus NEW, the Pulse Cleaner and the Antifoaming Tablets.



Compressor Operation

The air enters the cylinder through filter (6) and is filtered for the first time; this filter traps atmospheric dust, ensuring air cleanliness and thus protecting pistons and cylinders. Piston slides inside the cylinder without any lubrication; the material coating the piston is compatible with the liner, and in spite of friction both liner and piston are not subject to any significant wear. The air is compressed and warmed in the cylinder, therefore it is necessary to convey it through an air-air exchanger (9) where, at a room temperature of about +20 °C, ΔT is stable at about +5 °C. Air temperature needs to be reduced to dew point in order to condensate the air humidity. Cooled air is then conveyed through cyclon in the drying column (12) thus forming dew, which is collected in the tank. Afterwards the air goes through a disk filter, which is placed on the cyclon, then through a high-adsorption silica gel compound and is completely dried. Two filters are located at the drying column air outlet: the first one is in sintered bronze, the second one in polyester. This polyester filter can be replaced by Balston sterilizing filter (efficiency: 99.9999 +% for 0.01 μ m particles). Then the compressed air, dried and hygienically filtered, enters the tank (10) to be used. The tank is coated with certified alimentary resin guaranteeing good conservation of air. Whilst the tank is being filled, the air also enters a small reservoir (7) through the selector valve (8). At the end of each cycle, the dry air in the small reservoir flows back through the drying column in the opposite direction and regenerates the silica gel compound. This reversed flow of air carries all the moisture previously removed from the compressed air and drains it into the bottle. The whole process is automatic.



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• How aspirator works

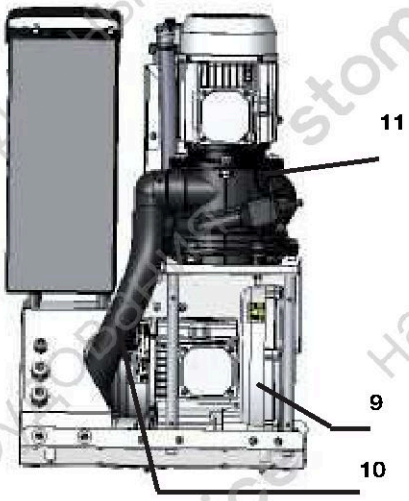
Turbo-Smart operation

The aspirating unit **(9)** (through pipe **10**) creates vacuum inside the centrifugal separator **(11)**. The fluid coming from the dental units enters the centrifugal separator **(11)** from the collecting pipe **(2)**. The centrifugal separator separates air from liquids: air is exhausted outside through the pipe **(4)** whereas liquids (in the version without amalgam separator) are drained to the sewage through the waste pipe connected to the tube-holder **(6)**. The centrifugal separator **(11)** is starting before the aspirating unit **(9)**, this allows to drain the liquids which might collect inside the centrifugal separator before aspiration starts. Moreover, when the machine is switched off a timer (adjustable) is keeping the motor running for min.10" - max. 120".



Amalgam Separator ISO 18

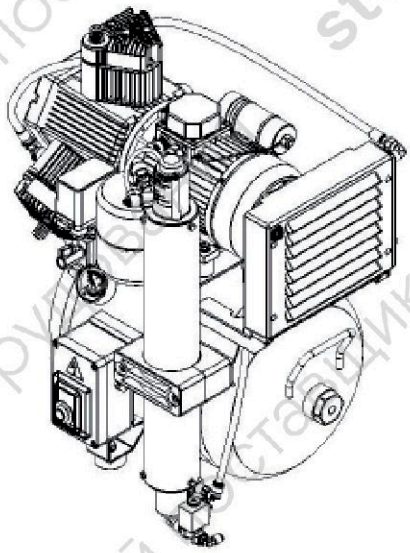
refer to the Amalgam Separator ISO 18 manual





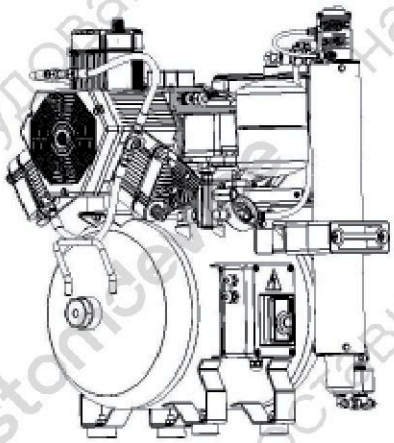
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• Compressor ordinary maintenance



Ordinary maintenance
To be entrusted to the surgery staff, purposely trained

Before commencing maintenance or repairs on the compressor, disconnect it from the mains and ascertain that nobody can connect it again without the maintenance operator knowing it. If the compressor is installed in a dusty spot or where it can aspirate solid particles, as dust, sand, dry leaves or similar, the head filters should be cleaned and replaced very often. If it is installed in a clean room, it will be enough to clean the filters (A) every twelve months. We recommend to sterilize the filter (S) in autoclave at +135 °C at least every twelve months, for max 20 times. We recommend to wear disposable gloves and to put the filter immediately into the autoclave. Replacement cartridges are available; follow the directions given with the filter and mark the operation on the report sheet. Check the ventilator running every twelve months, as the compressor cannot work for long without adequate ventilation. Tap (8), placed under the air tank, must be opened at regular intervals: if moisture is noticed, call for an engineer. Note that the air-drying system cannot work properly with environment temperature above + 35 °C. The compressor should not start if no compressed air is used: differently, check for any leak in the system or in the compressed-air-using appliances. Charging time is about 45/55 sec., whilst time for the regeneration of the silica gel and for cooling is about one third of the charging one. Regular observation lengthens the life of the appliance: if excess noise, vibration or leaks are encountered, call for the engineer.



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• Compressor extraordinary maintenance

Experience and the volume of the surgery work will give indications to every operator about increasing or decreasing the frequency of the mentioned operation in comparison with our advice.

Always fill in the "Ordinary maintenance" report-sheet.

Extraordinary maintenance

To be entrusted to a trained and authorized engineer, provided with original spare

Checks must be regular; their frequency is related to the volume of the surgery work. A surgery working 8 hours a day, for five days a week, needs one check every six or twelve months, if appliances are watched also by the surgery staff charged with ordinary maintenance. The engineer charged with the extraordinary maintenance must use original spare parts only, must not modify the appliances or their functioning, and must not modify any safety device. In particular he must not carry out any welding on the compressor tank. Before any operation, consult the instruction manual, split-up drawings, and electrical diagrams. **Before approaching the compressor, disconnect it from the mains; if the main switch is far away and cannot be surveyed closely, lock it.** Ascertain that the compressor gets the set max. pressure at every charge. Charging time is about 45/55 sec. and the silica gel regeneration and cooling time is about one third of the charging one. If the compressor has difficulty in getting to the max set pressure, check the tension on the line and capacity of condenser. Check the electrical absorption. **At every stop of the compressor a dry-air-reversed-flow dries the silica gel; if it is not so, check or replace the electrovalve (13). If the compressor has difficulty in getting the working rate, check the tension on the line and capacity of condenser. Every six months check the absorption with external ammeter.** Check for any leak on the appliance, on the line, and on the dental units. Check the aspiration value at every cylinder (from 6 to 8 bar): aspirated air must not be less than 6000 N l/h. Replace burnt bulbs in the control panel, replace flaming relays or remote switches and those with worn-out contacts. Do not modify the functioning or the electrical and mechanical protections.



Any change of the running noise can be a sign of malfunctioning and of a breakdown risk, therefore it is a good rule to replace noisy heads.

Check the engine room temperature: the air-drying system cannot work properly at temperatures above + 35 °C.

Always fill in the "Extraordinary maintenance" report-sheet.



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• Ordinary Maintenace

Routine maintenance must be entrusted to specially instructed surgery staff.

• We recommend to pay special attention to all danger signals and to use goggles, gloves and disposable overalls for personal protection.



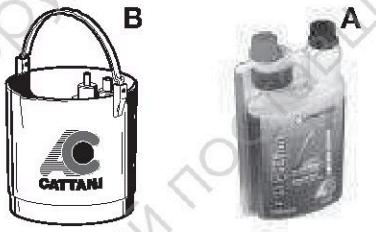


Daily

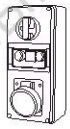
• Check for any possible alarm on the display. In case of alarms, contact the technician.

Every evening

• At the end of every working day aspirate a solution of Puli-Jet plus new disinfectant with anti-scale agent **(A)** using Pulse Cleaner **(B)**;

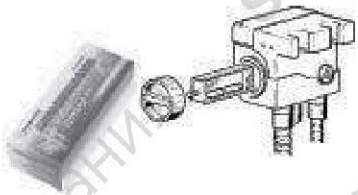


• Disconnect the machine from the mains before any intervention.



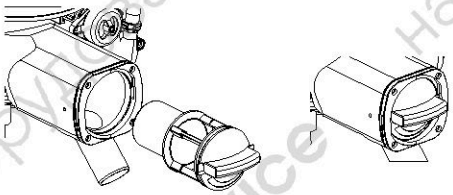
Daily

• Place the Antifoam Tablets on the dental unit filters.



Periodically

• Keep the aspirator filter clean.



Occasionally

• Make sure that the aspirator ventilation is not obstructed;

• Keep the plant room free from anything not related to the machines, especially from flammable material. Make sure that there is no possibility for the formation of corrosive, flammable and explosive mixtures.

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• Extraordinary maintenance

Extraordinary maintenance must be entrusted to a trained technician in possession of original spare parts:

• pay special attention to danger signals. Use goggles, gloves and disposable overalls for personal protection;

• check that routine maintenance has been duly carried out and make sure that Magnolia products are used;

• before any intervention carry out a series of washes with Eco-Jet 2 disinfectant **(E)**, then wait 10 minutes for a complete disinfectant action.







Every 12 months

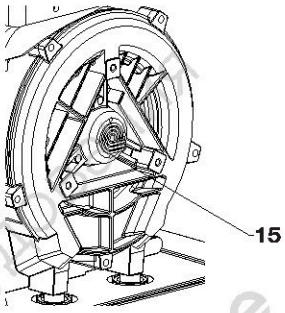
• Check maximum detected temperatures and all alarms. Intervene accordingly;

• check the aspirator noise level (max. 72 dB according to the regulation 3047 (E);

• if necessary, remove dust from the circuit AC80 inside electronic components using a blast of dry air not exceeding 2 bar pressure. By means of a 6 bar blast of air clean also the small holes on the frontal cover of the aspirating unit **(15)**;

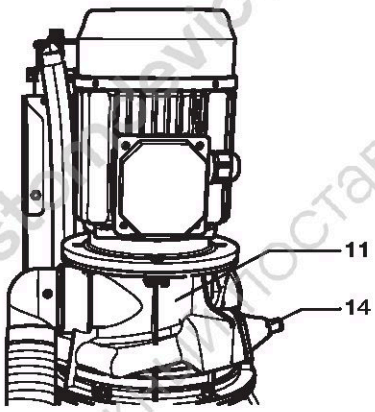


• check the conditions of plastic hoses, in particular the hoses under pressure connecting the centrifugal separator and the Hydrocyclone ISO. We suggest to replace these hoses every 12-18 months.



Every 18-24 months

• Check the working conditions of the centrifugal separator **(11)** and re-circulation valve **(14)**.

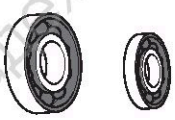


Every 10.000 working hours

• Every time a component containing a rubber part (“O” ring, gasket or seal) is disassembled, replace the rubber part;

• replace the motors bearings;

• where routine maintenance is not carried out properly or unsuitable products are used, train the staff and inform the person in charge.



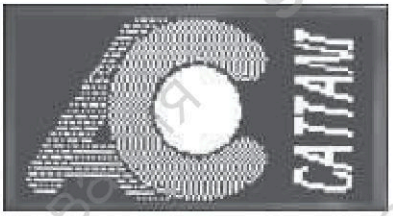
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• Instructions on adjusting and modifying certain parameters in the Turbo SMART menu.

Main menus

When Turbo-Smart is switched on, the display shows the Cattani logo for 10 seconds, after which time the main menu appears.



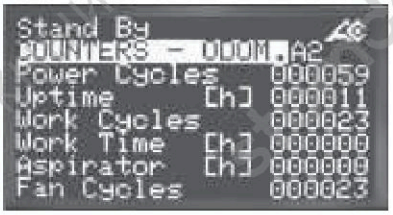
Main Menu "A1"

This menu shows some parameters such as: cycles, suction activation time, temperature, presence/absence of the amalgam container and system software release.



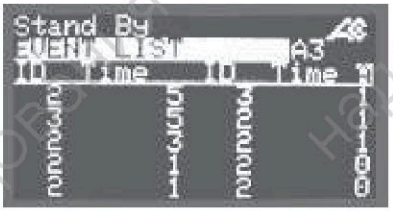
Control Menu "A2"

The display shows the number of times Turbo-Smart has been switched on by means of the main switch (Power Cycles), the total hours Turbo-Smart has had power supplied (Uptime), the number of times suction has been activated (Work Cycles), the total running hours of the aspirator (Work Time), the average working hours of the blower (Aspirator) and the number of times the control panel cooling fan has been activated (Fan Cycles).



Events Menu "A3"

The menu shows the last 10 events or alarms that have occurred to Turbo-Smart. Alarms are indicated with a number; refer to the table at page 45 to identify them. .



Control Menu "A2"

COUNTERS – ODOM . A2		
POWER CYCLES	000000	Number of times the aspirator has been switched on by means of the main switch.
UPTIME [h]	000000	Total hours Turbo-Smart has had power supplied.
WORK CYCLES	000000	Number of times the aspirator has been activated by the dental unit.
WORK TIME [h]	000000	Number of real running hours (motors running).
ASPIRATOR [h]	000000	Average working hours of the aspiration motor (UNI-JET 75).

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• Instructions on adjusting and modifying certain parameters in the Turbo SMART menu.

Secondary Menus

Press (I) to enter the Secondary Menus.

Pressing the ⇩ key takes you through the other menus.





Drive Status

This menu can be accessed without any access password. The display shows useful information about the Turbo-Smart functioning.



User Parameters

Use the password 0000123000 to enter this menu. From this menu the Vacuum Set Point and the unit's displayed Language can be set, as well the Activation Code can be entered to upgrade version A to version B.

Scroll down button



System Parameters Setup

The password 0000456000 must be entered to gain access to this menu. From this menu Off Delay Time and other technical parameters can be set.



Factory Settings Restricted Access

This menu cannot be accessed by the user. It can be entered by the manufacturer only.



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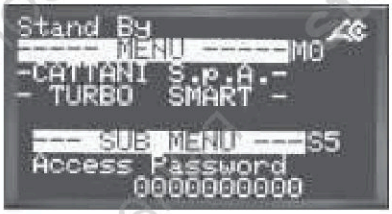
• Instructions on adjusting and modifying certain parameters in the Turbo SMART menu.

Entering Access Passwords

The Drive Status menu is the only menu that can be accessed without the use of an access password.

To enter the User Parameters menu the access password is 0000123000.

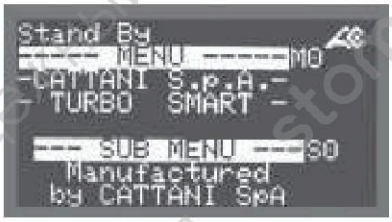
To enter the System Parameters Setup menu the access password is 0000456000.





From the CATTANI S.p.A. menu, press ⇨ and then ⇧.

The Access Password screen Access Password 0000000000 should then be displayed.



Press the ⏻ Enter Key which will make a cursor appear on the last zero to the right.

Press ⇦ until the cursor is flashing on the 6th zero. Press ⇧ until number 1 appears.

Press ⇨ to move to the next zero and then press ⇧ until number 2 appears. Press ⇨ to move to the next zero and then press ⇧ until number 3 appears.

Press the ⏻ Enter Key to confirm the password. The cursor will disappear.



Press ⇦ to return to the Cattani S.p.A. menu.

It is now possible to modify the parameters of the User Parameters menu.

Repeat the same process and enter the password 0000456000 to gain access to the System Parameters Setup menu.



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• Instructions on adjusting and modifying certain parameters in the Turbo SMART menu.

Drive Status menu

This menu can be accessed without any access password. It displays various technical parameters regarding the real-time working conditions of Turbo-Smart. Listed below is the more commonly required information.

Blower Output Frequency

(max. setting for version A: 85 Hz

max. setting for version B: 110 Hz)

Blower Output Voltage

(max. setting: 220V)

Blower Overall Current

(max. setting for version A: 5,5 A

max. setting for version B: 7,5 A)

Pump (Centrifuge) Output Frequency

(fixed setting for versions A and B: 55 Hz)

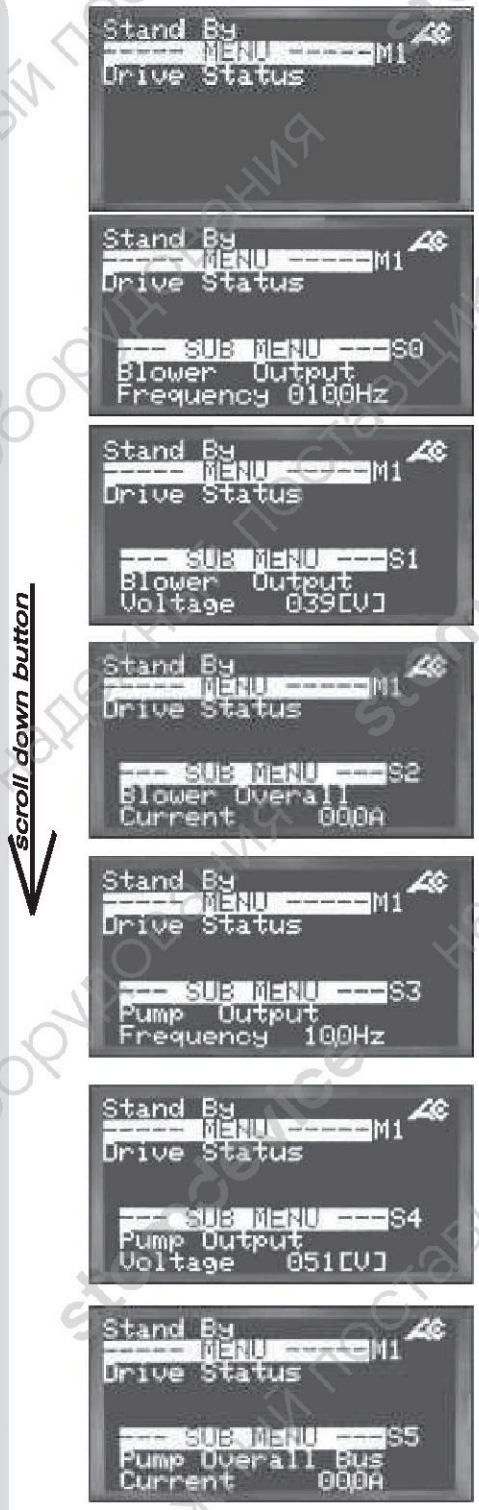
Pump (Centrifuge) Output Voltage

(max. setting: 220V)

Pump (Centrifuge) Overall Bus Current

(max. setting for version A: 5,5 A

max. setting for version B: 7 A)



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• Instructions on adjusting and modifying certain parameters in the Turbo SMART menu.

System Temperature

Maximum Detected Temperature

(+58 °C: Alarm and Stop of the aspirator)

Vacuum

(max. setting: 200 mbar)



User Parameters menu

To access this menu you are required to enter the access password 0000123000 (see instructions on page 40).

Vacuum Set Point

This is the figure to which the unit will limit the vacuum.

Press the Enter Key to make the cursor appear. The figure can be changed using the arrow keys. Press the Enter Key again to confirm and continue.

Language

It is possible to choose either English (1) or Italian (0) for the displayed language.

Press the Enter Key to enable the cursor and use the arrow keys to select 0 or 1.

Press the Enter Key again to confirm the change and continue.

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• Instructions on adjusting and modifying certain parameters in the Turbo SMART menu.

Generated Code

This code is generated by Cattani S.p.A. Each unit is allocated a unique code. This code needs to be supplied to Cattani to purchase the password (Activation Code) to upgrade version A (2 chair unit) to version B (4 chair unit).



Activation Code

Once purchased from Cattani S.p.A., this code is entered at this point to upgrade version A (2 chair unit) to version B (4 chair unit).

Press the Enter Key to make the cursor appear.

Use the keys to move the cursor. Enter the Activation Code using the keys to increase or decrease the figure.

Press the Enter Key again to confirm, then press to go back to the User Parameters menu.



System Parameters Setup menu

To access this menu and/or make any changes, you are required to enter the access password 0000456000 (see instructions on page 40).



Vacuum set point

(Max.setting: 200 mbar)



To change any parameters in this menu:

Scroll with through to display the required parameter.

Press the Enter Key to enable the cursor. The figure can be changed using the arrow keys .

Once the figure has been set to the desired figure, press the Enter Key again to confirm and continue.

scroll down button

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• Instructions on adjusting and modifying certain parameters in the Turbo SMART menu.

Blower Current Limit

(Max. setting for A: 5,5 A

Max. setting for B: 7,5 A)

Turbo-Smart Off Delay Time

(Max. setting: 300 sec.

Min. setting: 10 sec.)

Pump (Centrifuge) Off Delay Time

(Max. setting: 30 sec.

Min. setting: 5 sec.)

Control Panel Fan Off Delay Time

(Default setting: 300 sec.

Max. setting 1800 sec.)

Running Options

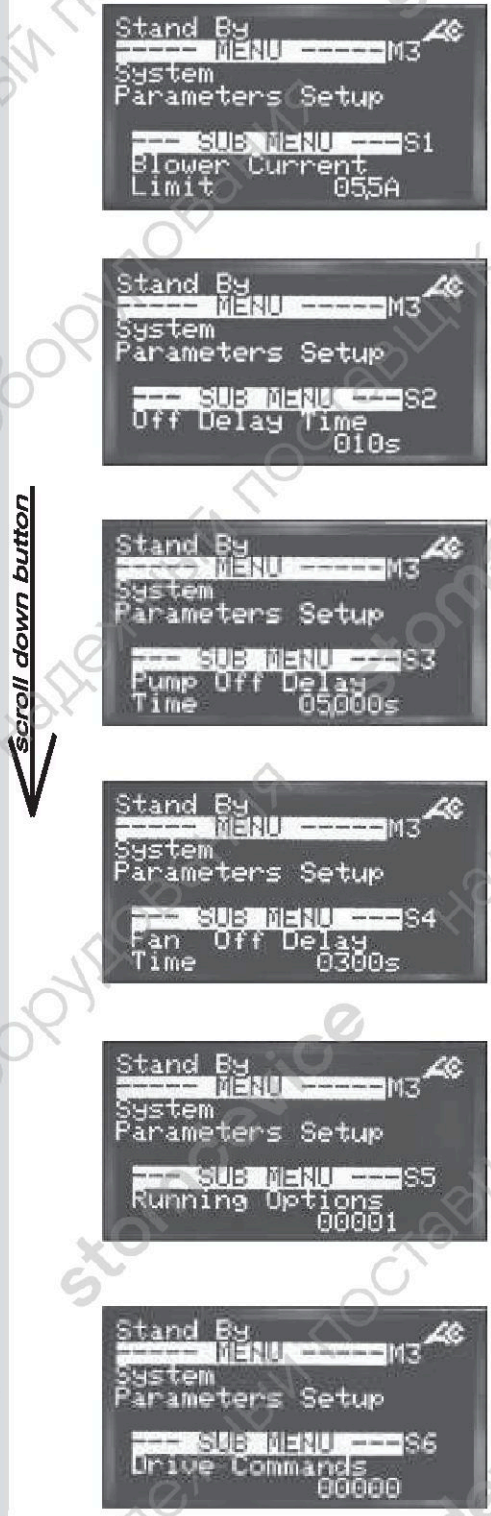
This enables or disables the amalgam level sensor.

Set to 0: without amalgam separator

Set to 1: with amalgam separator

Drive Commands

Factory use only.



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• Alarm descriptions

Alarm code		DESCRIPTION	SOLUTION
00	0	Microcontroller memory alarm	Contact the technician
I14	2	Amalgam level > 95%	Replace the amalgam container as soon as possible
I15	3	Amalgam level > 100%	Replace the amalgam container
I00	32	Microcontroller memory alarm	Contact the technician
I01	33	Short-circuit due to one of the two motors	Identify where the short-circuit is coming from and eliminate it
I02	34	Short-circuit before the motors' starting	Contact the technician (the PC-Board is likely to be damaged)
I03	35	Capacitors have not been charged	Contact the technician (replace the PC-Board)
I04	36	Overtemperature (temperature has exceeded the max. allowed limit)	Ventilate the plant room
I05	37	Blower overcurrent (the blower has exceeded the current limit)	Check the operation of the blower (seized or excessive friction)
I07	39	Condensers overvoltage (the condensers have exceeded the max. voltage limit)	Check the mains voltage (max. 260V)
S08	40	Centrifuge short-circuit	Eliminate the short-circuit
S09	41	PC-Board short-circuit on the centrifuge output	Replace the PC-Board
S10	42	Centrifuge instant overcurrent (the centrifuge has exceeded the current limit)	Eliminate siphons in the piping or check the centrifuge operation (seized or excessive friction)
S11	43	Centrifuge time delayed overcurrent (the centrifuge has exceeded the current limit)	Eliminate siphons in the piping or check the centrifuge operation (seized or excessive friction)

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• Important notices
• Transport and storage
• Transport of second-hand appliances

• Important notices

• Appliances are guaranteed for one year from the date of sale, provided that the warranty slip is returned to the manufacturer with date of sale, retailer's and customer's name.

• Warranty and manufacturer's liability cease in case appliances are treated with products which are unsuitable or different from those recommended by the manufacturer and also in case appliances are improperly used or tampered with operations of any kind carried out by people who are not authorized by the manufacturer.

• The manufacturer, concessionaires, agents and authorized technicians are at customers' disposal for advice and assistance and to supply literature, spare parts and anything useful.

• The manufacturer reserves the right to modify the products for improvements, for technical, normative and functional reasons or for problems due to the availability of products or semi-finished products, without prior notice.

• Our **updated** manuals are available on the web site **www.cattani.it**. We recommend they are consulted especially for updates about **safety**.

• Turbo-Smart is a EEE device, therefore it is subject to the WEEE (Waste of Electrical and Electronic Equipment) regulations.

• Transport and storage

• Packed appliances can be transported and stored at a temperature ranging from -10 °C to + 60 °C.

• Packages must be kept away from water and splashing and cannot tolerate humidity >70%.

• Packages with the same weight can be stored in piles of three only.

• Transport of second-hand appliances

• Before packing, cleanse and disinfect with Puli-Jet plus new (refer to the paragraphs "Signals and warnings" and "Routine maintenance").

• Close with polyethylene plugs all machine inlets and outlets.

• Place the machine into a polyethylene bag, seal and pack it in 3-layer corrugated board.

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ITALIAN PATENTS OR PATENT APPLICATIONS:

CATTANI: 1201707 - 1234828 - 1259318 - 1.187.187 - 1253460 - 233634 - 2337706 -1294904

ESAM: 1225173 - 1253783 - 0791751

FOREIGN PATENTS OR PATENT APPLICATIONS:

CATTANI: AU 546.143 - US 4,386,910 - US 4,787,846 - US 5,039,405 - US 5,002,486 AU 580839 - US 4,684,345 - US 5,330,641 - AT 0040181 - CH 0040181 - DE 0040181 FR 0040181 - GB 0040181 - LU 0040181 - SE 0040181 - CH 0211808 - DE 0211808 FR 0211808 - GB 0211808 - SE 0211808 - DE 0335061 - ES 0335061 - FR 0335061 GB 0335061 - AT 0557251 - DE 0557251 - ES 0557251 - FR 0557251 - GB 0557251 DE 0638295 - DK 0638295 - ES 0638295 - FR 0638295 - GB 0638295 - NL 0638295 SE 0638295 - US 6,083,306 - US 6,090,286 - US 6,022,216

ESAM: US 4,948,334 - DE 0351372 - ES 0351372 - FR 0351372 - GB 0351372 EP 0791751 - US 5,779,443 - CH 0791751 - DE 0791751 - ES 0791751 - FR 0791751 GB 0791751 - PT 0791751 - AU 93321 - ES 107358 - FR 222.394/395

PENDING PATENT

CATTANI: IT M098A000019 - IT M098A000119 - EP 99830010.7 - EP 99830011.5 EP 99830250.9 - EP 00830491.7 - IT M099A000165 - US 09/624,182

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Company with Quality System Certified according to
UNI EN ISO 9001:2008 - UNI EN ISO 13485:2012

ИМ05

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