SGi Pastry

User manual

CE

This product complies with the provisions of European Directive 2006/42/EU regarding the approximation of the laws of the Member States relating to machinery.

The Art of Spraying

BREVA5 – 270T & BREVA11 – 500T

Compressor / BREVA5/11 - 270T & 500T

Introduction

1.1. General Information

This user manual is an essential part of the product. It must always be available and kept in a visible and accessible location for the personnel who use the product. Any incomplete manual must be immediately replaced with a new copy.

Please read this manual carefully, as it contains all the necessary information for identifying, installing, using, and maintaining this product in accordance with safety standards. Any negligence in this regard may result in injury or material damage.

Write down the serial number in this manual to ensure traceability of the product in case of malfunction, spare part request, sale, or even theft. Also, note this number on a separate sheet and keep it in a safe place.

Serial number

Proper maintenance, care, and regular checks are essential for the proper functioning, optimal performance, and longevity of the product. For this reason, it is important to regularly note all interventions performed on the product, the various maintenance actions, and to follow everything presented in this manual.

All information, illustrations, and specifications in this manual are based on the latest available data at the time of publication. We reserve the right to modify this manual at any time and without notice.

1.2. Scope of Use

This product is designed for professional use only, where its use is necessary. Any other use is contrary to the “normal” use of this product. The manufacturer disclaims any responsibility for material or bodily damage resulting from non-“normal” use, as the risks are the responsibility of the user. “Normal” use involves following the guidelines outlined in this manual.

This product must be used, maintained, and repaired by competent individuals who are trained on this type of product. Always follow accident prevention instructions and the general safety and occupational health regulations. The manufacturer disclaims any responsibility for material or bodily damage resulting from modifications made to the product without prior written consent.

1.3. Warranty

To learn about our warranty conditions, please refer to our General Terms and Conditions of Sale (G.T.C.).

Safety

2.1. Guidelines

- Carefully read this manual and those of connected accessories.
- Do not use without prior training.
- Keep the device out of reach of children.
- Do not dismantle or modify the device in any way, especially the safety devices.
- Do not use the device beyond its limits.
- Have your device repaired by our technicians or authorized service personnel.
- Do not use or work on the device if overly fatigued, under the influence of medication, drugs, or any other substance that reduces alertness.
- Keep the device and its operating area clean and free from grease or slippery substances.
- Do not pour liquid directly onto a hot surface or electrical part.
- Do not breathe the air generated.
- Do not direct the air jet at living beings.
- Do not swallow any liquids present on the device.
- Do not pull on the electrical cables to disconnect them.
- Do not unplug the device to stop it.

DURING OPERATION

- Do not cover the device or its ventilation areas.
- Do not remove the belt guard or protective panels.
- Wear close-fitting clothing, safety shoes, protective gloves, and hearing protection (unless using soundproofed devices). Avoid wearing jewelry.
- In case of an emergency or if a suspected or detected anomaly occurs, immediately press the emergency stop button (if equipped).

BEFORE ANY INTERVENTION

- Ensure that the device is unplugged.
- Press the emergency stop button (if equipped).
- Wait for the device to cool down completely.
- Depressurize the device.
- Wear protective clothing, gloves, and safety glasses.
- Use only appropriate equipment.
- Use only original spare parts.

2.2. Safety Devices

- Protection cover
- Electrical and/or thermal protection elements
- Air pressure gauge on the tank
- Safety valve
- Pressure switch

2.3. Warnings

READ THIS MANUAL CAREFULLY

RISKS ASSOCIATED WITH PRESSURIZED FLUIDS :
Always check that the connections are tight and that the hoses are properly connected.

RISK OF ELECTROCUTION :
- Never open the motor housing or the control panel (if equipped).
- Never use the device with wet hands or feet.
- Never touch electrical components directly.

HOT SURFACE :
Never touch hot surfaces during or immediately after operation.
Wait a few minutes for the appliance to cool down completely.

AUTOMATIC START-UP :
Never intervene on the device without having completely stopped it.

MOVING PARTS :
Do not insert any part of your body or any object into moving parts. Always ensure that the belt guard or protective panels are in place and securely fastened.

2.4. Air Tanks

CAUTION
It is prohibited to modify the air tank without our prior written consent.

The operation of compressed air tanks is regulated by the applicable local legislation. It is essential to comply with this legislation to avoid penalties.

NOTA

The date to consider for the regulation is the manufacturing date of the air tank.

It is possible to contact us to perform the mandatory periodic inspection of the compressed air tank (only in mainland France).

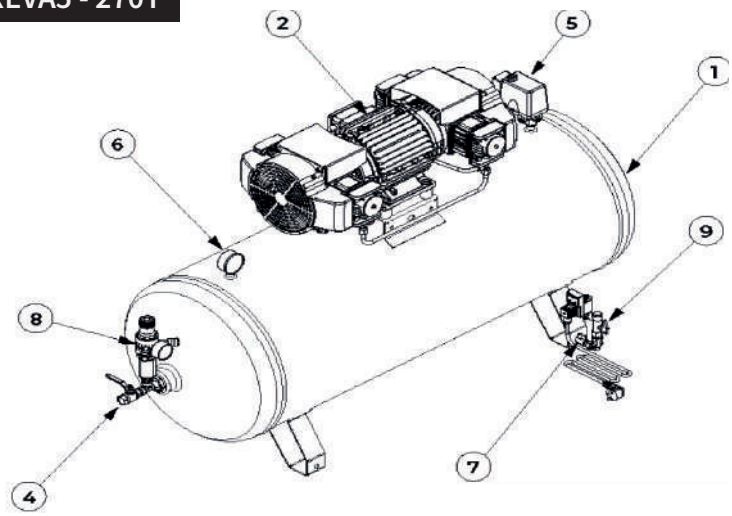
Technical description

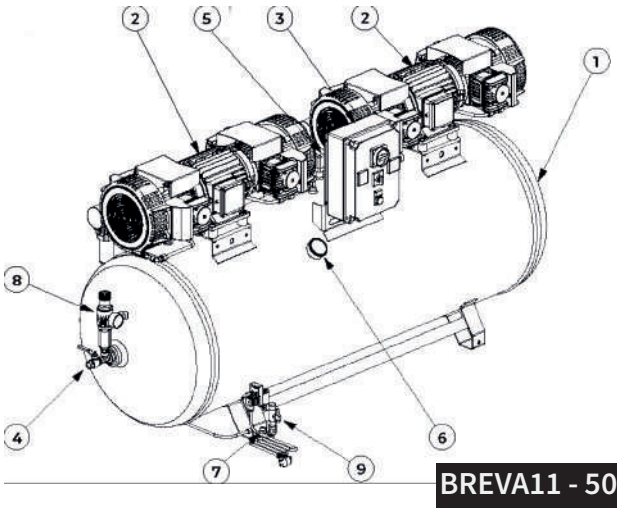
3.1. Model Designation

Model	Description
BREVA5 - 270T	Three-phase oil-free compressor with 270-liter tank.
BREVA11 - 500T	Three-phase oil-free compressor with 500-liter tank.

BREVA5 - 270T & BREVA11 - 500T

BREVA5 - 270T

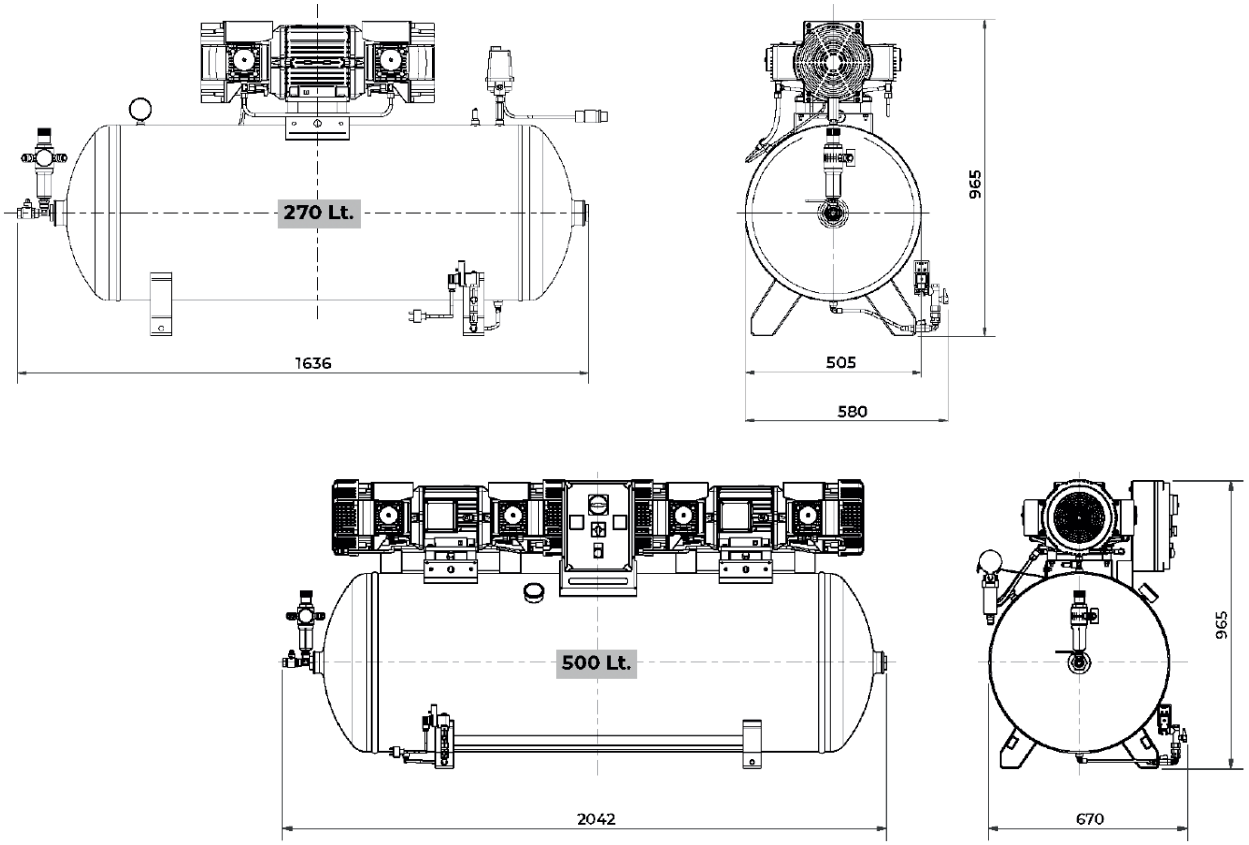




BREVA11 - 500T

1. Tank
2. Pressure unit
3. Electrical control cabinet
4. Direct air outlet
5. Pressure switch
6. Pressure gauge
7. Condensate drain valve
8. Pressure regulator (optional)
9. Solenoid valve (optional)

3.2. Machine Dimensions



3.3. Technical data

	BREVA5 - 270T	BREVA11 - 500T
Power Supply (V - Hz)	400 - 50	400 - 50
Current (A)	9	17
Flow Rate @ 5 bar (L/min)	660	1320
Maximum Pressure (bar)	10	10
Tank Capacity (L)	270	500
Motor Power (W)	2900	5500
Noise Level dB(A)	76	78
Weight	124	252
Operating Temperature (°C)	0 - 45	0 - 45
Duty Class	100%	100%
Mobility	Oil free	Oil free
Operating Mode	Stationary	Stationary

Transport, handling and storage

CAUTION
Wear safety shoes and protective gloves.

4.1. Reception

Despite all the checks performed before delivery, there is always a possibility that some anomalies may occur during transport. For this reason, the device must be inspected for any damage before being put into service.

Additionally, it should be monitored during the first hours of operation to detect any irregularities.

Do not use your device if any damage or irregularities are detected. Please contact us.

4.2. Unpacking

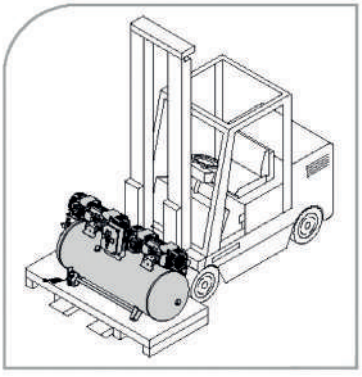
1. Remove the device's packaging.
2. Ensure that all components of the device are securely fastened and that it has not been damaged.
3. Detach the device from the pallet.
4. Remove the device from the pallet.

Keep the packaging for any future transport and during the contractual warranty period. However, the various packaging materials must be recycled in accordance with applicable local regulations.

4.3. Handling

CAUTION
Before any handling :
- Fully depressurize the air tank.
- Disconnect the device from the electrical and pneumatic networks.

Machine Handling with Equipment : Lift the machine using an appropriate tool such as a forklift, pallet jack, or similar equipment.



4.5. Shipping

1. Ensure that the device has no loose or unsecured parts.
2. Place the device on its original pallet.
3. Secure the device to the pallet.
4. Place and secure the original packaging to the pallet.

To prevent any damage, do not stack another package on top of the device's packaging. Always ensure the device remains in its operational position during transport.

Installation

CAUTION
Wear safety shoes and protective gloves.

5.1. Positioning

It is mandatory to choose the location of the equipment in compliance with local regulations in force.
The equipment must be installed in a room that is:

- Equipped with a flat, firm, and horizontal surface (inclination <10°)
- Supplied with clean, fresh air
- Sufficiently ventilated
- Not exposed to freezing temperatures
- Well-lit

The equipment must have at least 100 cm of clearance on all sides.

CAUTION
If the unit is to be installed under conditions other than those listed above, please contact us.

5.2. Positioning

CAUTION
Only a qualified electrician may carry out the electrical connection.
Incorrect electrical connection may damage the equipment.

This compressor must be grounded during use to protect the operator from electric shock.
The single-phase compressor is equipped with a two-pole + ground connector.
The three-phase compressor comes with a power cable without a plug. This compressor must be installed by a specialized technician.
It is strongly advised never to disassemble the compressor or make any additional connections to the pressure switch. All repairs must be carried out exclusively by authorized service centers or other qualified facilities.
Always remember that the ground wire is green or yellow/green. Never connect this wire to a live terminal.
Before replacing the power cable plug, ensure that the ground wire is connected.
In case of doubt, contact a qualified electrician and have the ground connection checked according to the regulations in force in the country of installation.

Extension Cord
Only use extension cords equipped with a plug and ground connection.
Never use damaged or pinched extension cords. Ensure the extension cord is in good condition.
When using an extension cord, make sure the cable cross-section is adequate to carry the current drawn by the connected device. If the extension cord is too thin, it may cause voltage drops, resulting in power loss and overheating of the equipment.

The extension cable for single-phase compressors must have a cross-section proportional to its length (see Table 1).

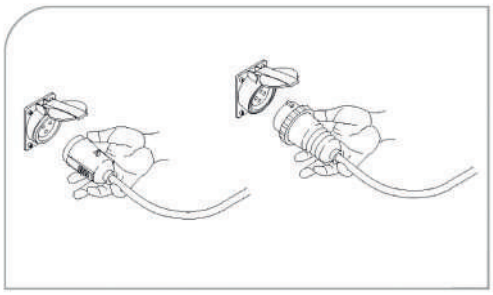
Always connect the unit to an electrical installation equipped with a Type D thermal-magnetic circuit breaker rated to match the motor current (see the nameplate), in accordance with section 5.3 of standard EN 60204-1:2006.

Overcurrent protection must comply with section 7.2 of EN 60204-1:2006.
Place the power cable so as to prevent tripping hazards.

Connection Cable Selection
Use the recommended cable section below when setting up the installation: **20 meters (three-phase).**

HP	kW	220/230 V (mm²)	380/400 V (mm²)
2 - 3 - 4	1,5 - 2,2 - 3	2,5	1,5
5,5	4	4	2
7,5	5,5	6	2,5
10	7,5	10	4

Three-phase compressors (L1+L2+L3+PE) must be installed by a qualified technician. These compressors are supplied without a plug. Connect a suitable plug to the power cable.



TO AVOID THE RISK OF ELECTRIC SHOCK
Never operate the compressor with damaged power cables or extension cords. Regularly inspect the power cables.
Never use the compressor in or near water, or in hazardous areas where electric shocks may occur.

IMPORTANT
Never use the ground wire as a neutral wire. Grounding must be carried out in accordance with safety standards (EN 60204).
The power plug must not be used as an on/off switch, but must be inserted into a socket controlled by an appropriate residual current device (thermal circuit breaker).

NOTA

Compressors mounted on a 500-liter tank, TANDEM model (two pumping units on the same tank), are equipped with a timed control unit to stagger the start of the two pumping elements.
Any damage caused by incorrect electrical connection to the power supply automatically voids the warranty for electrical components.
To avoid connection errors, we strongly recommend contacting a qualified technician.

Operation

CAUTION
Read the safety instructions carefully.
Before use, check the overall condition of the device.
Check the operation of the emergency stop button (if equipped). Check that the dryer is correctly powered on (if equipped).

6.1. Before starting

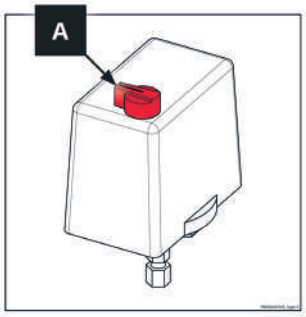
To avoid any risk of injury or material damage, it is essential to check the following points before the first start-up of the device:

- Ensure that no unauthorized person is near the machine.
- Ensure that the machine is correctly positioned.
- Ensure that all connections have been properly made.
- Ensure that the switch on the pressure switch is set to “OFF (0)”.
- Ensure that the condensate drain valve is closed.
- Use the required personal protective equipment (PPE).
- Ensure that you have read and understood all parts of this “User Manual”.
- Check that daily maintenance has been performed after the last use.

6.2. Starting

1. Close the air outlet valve(s) when the tank is empty.
2. Turn the start/stop switch A on the pressure switch to “ON (I)”.

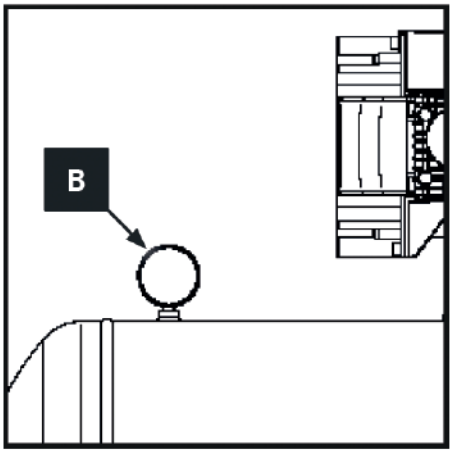
The compressor starts.



6.3. Operation

Monitor the air service pressure on the pressure gauge B.
It should never exceed the maximum allowed air pressure.
If this happens, the safety valve C will activate.

CAUTION
In case of activation of the safety valve, stop the device.

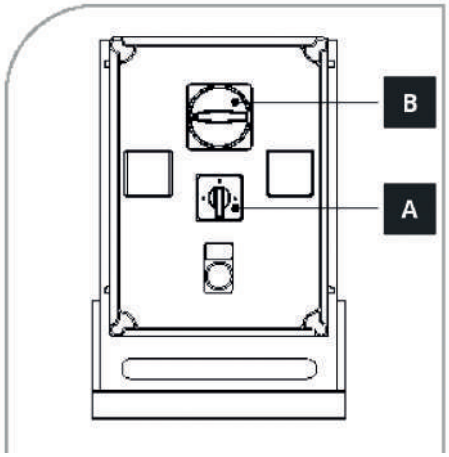


During operation, when the maximum air service pressure (8 bar) is reached, the pressure switch automatically shuts off the device.
When the air service pressure drops by approximately 2 bar below the maximum service pressure, the pressure switch automatically restarts the device.

6.4. Tandem Compressor Electrical Cabinet

Plug in the power cord (see section 5.3) and turn the pressure switch to position (I) – ON.
Set the main switch "A" on the control cabinet to position 1, then turn switch "B" to start the compressor.

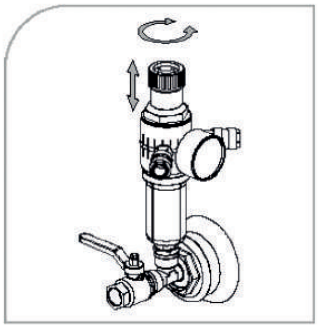
- Position 1 : Only compressor no. 1 is operating.
- Position 2 : Only compressor no. 2 is operating.
- Position 3 : Both compressors operate simultaneously, with staggered start times.



CAUTION
BEFORE OPENING THE CABINET, MAKE SURE THE COMPRESSOR IS DISCONNECTED FROM THE POWER SUPPLY.

6.5. Pressure Regulator (Optional)

It is not necessary to always use the maximum operating pressure. On the contrary, the pneumatic tool used often requires a lower pressure. On compressors equipped with a pressure regulator, the operating pressure should be properly adjusted.
Release the pressure regulator button by pulling it upwards, adjust the pressure to the required value by turning the button clockwise to increase the pressure and counterclockwise to decrease it. Once you have obtained the optimal pressure, lock the button by pressing it down.



6.6. Resetting the Circuit Breaker

NOTA

In the event of a power surge and/or short circuit in the machine's electrical installation, the resettable circuit breaker will stop the electric motor.

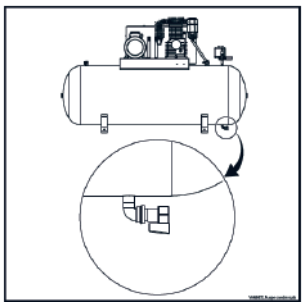
To reset, proceed as follows:

1. Set switch A to "OFF (0)".
2. Press button C on the resettable circuit breaker.
3. Before turning the machine back on, wait a few minutes.

CAUTION
If the machine does not restart after resetting, contact the maintenance technician and/or the authorized dealer.

6.5. Stop

1. Turn the pressure switch start/stop switch to "OFF".
2. Unplug the power cable from the socket and place it next to the machine.

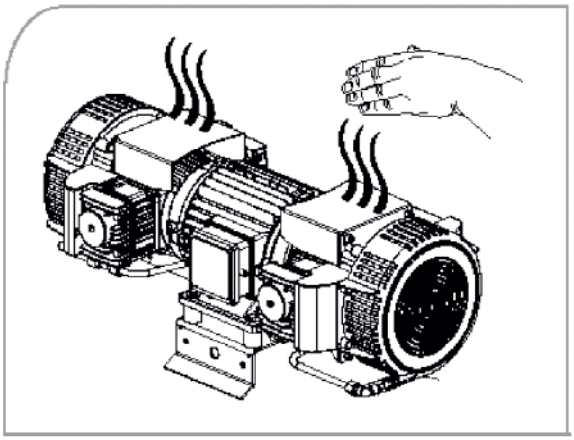


Drain the Condensates

1. Place a container under the condensate drain valve located under the air tank.
2. Drain the condensates by slowly opening the valve.
3. Close the valve once the drainage is complete.

NOTA

The head/cylinder/distribution tube assembly can reach high temperatures. Be cautious when working near these parts, and avoid touching them to prevent possible burns.



CAUTION
Disposing of condensates in nature is punishable by law.
It is imperative to have the condensates treated by a specialized company.

NOTA

In case of malfunction of the pressure switch and if the pressure inside the tank exceeds 10.5 bars, the safety valve will activate by opening mechanically to release the compressed air and bring the pressure back to a safe level.

CAUTION
With the activation of the safety valve, it is mandatory to turn off the machine, notify the safety officer, and request the assistance of maintenance technicians or the authorized dealer to check the pressure switch.

Maintenance

CAUTION
Read the safety instructions carefully.

NOTA

The operations described below are generic.
Depending on the model of your compressor, the procedures and illustrations may differ.

7.1. Schedule

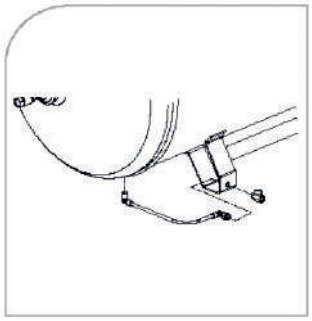
FREQUENCY	OPERATION
Une fois par jour	◉ Check the overall condition of the compressor. ◉ Drain the condensates.
Every 50 operating hours	◉ Clean / Replace (if necessary) the air filter.

To order the necessary spare parts, please contact us.

7.2. Cleaning and General Maintenance

Clean the compressor with compressed air and a dry cloth..

1. Place a container to collect condensation from the purge valve.
2. Slowly open the condensate purge valve and wait for the complete release of compressed air and condensation.
3. Close the purge valve.

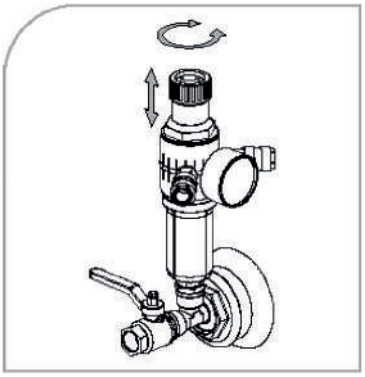


CAUTION
Disposing of condensates in nature is punishable by law.
It is imperative to have the condensates treated by a specialized company.

7.3. Air Filter

Before any maintenance, ensure that:

1. The power switch of the electrical cabinet is set to the “0” position.
2. The pressure switch is in the “0” position.
3. There is no pressure left in the tank.



Faults and remedies

NOTA

The remedies indicated in bold are to be carried out by our technicians or authorized technicians.
In case of recurrent or unsolvable failure, please contact us.

CAUTION

Authorized operators must not leave the machine unattended during maintenance interventions. They must also secure the work area with a red/white barrier chain and apply danger and prohibition notices for ongoing work.

FAULT	PROBABLE CAUSE	SOLUTION
The machine does not turn on or stops and restarts.	No electricity	Check that the switch (18) is set to “ON (I)”.
		Check that the plug of the power supply cable (15) is functional and properly inserted into the socket.
		Check that any extension cords and the socket are working.
		Check that the main switch of the electrical network is on and set to “ON (I)”.
The machine does not turn on or stops and restarts.	Intervention of the resettable circuit breaker due to a power surge and/or short circuit	Follow the procedure described in the “Thermal Protection Reset” section.
The machine restarts several times without the pneumatic system being operational.	Leaks in the air hose or pneumatic installation	Check that the pneumatic installation has not been damaged.
		Check the integrity and connections of the air hose and installation.
Activation of the safety valve.	Defective pressure switch	Request the intervention of maintenance technicians or contact an authorized dealer.
Air leak from the pressure switch valve when the machine is off.	Dirty or worn check valve.	
The machine vibrates and/or makes a lot of noise.	Mechanical failure.	
Frequent starts and low performance.	Dirty air filters.	

End of life

In accordance with European Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE), and its transposition into the applicable local legislation, electrical equipment that is no longer in use must be collected separately and subjected to environmentally-friendly recycling.

More than 90% of the components of your device are recyclable or can be recovered in an appropriate treatment process.

Act with us for the benefit of the environment.

Contact SGI Pastry

SGI Pastry

Your catalog always with you !

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Discover our webshop: www.sgi-pastry.com

"We are at your disposal to advise you on the most suitable equipment for your daily use. An optimal result will be possible with the combination of quality equipment, a sufficiently powerful air supply, and your expertise!"

SGI Pastry

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Terms & Conditions of Sale.

We would like to thank all the dessert professionals who contributed to the development of this catalog.


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