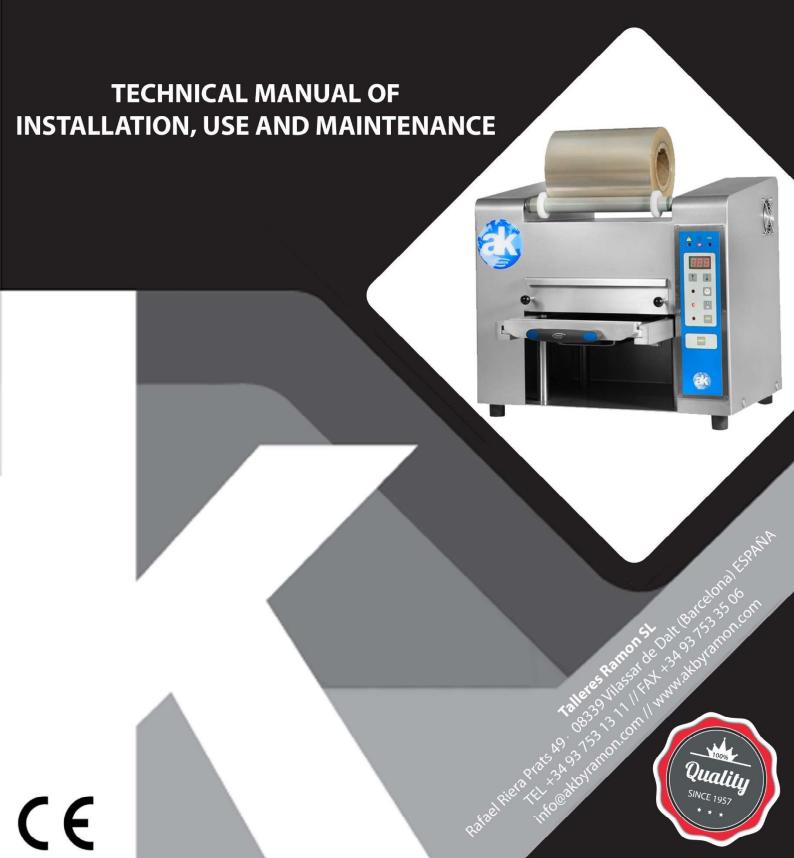


Semi-automatic tray sealers TS-200 / TS-200 GF





All adjustments, alterations, maintenance, etc. mentioned in this manual must be performed by <u>qualified personnel</u> for that kind of machines.

Safety rules

General Rules and regulations

- Read, understand and follow all instructions in the manual and on the machine before starting-up. Keep this manual in a safe place for future reference and for ordering spare-parts.
- ✓ Empower to operate with the machine only to people who have knowledge of this manual. Make sure you know how to stop the machine quickly.
- ✓ Do not put your hands near moving parts.
- ✓ Remove any obstacles that would prevent proper operation of the machine.
- ✓ Clean the work area for all foreign elements (e.g. electrical strips, gloves, knives, etc).
- ✓ Make sure to turn off the machine when you finish your work. Never leave a running machine unattended.
- ✓ Always unplug and wait for the machine to cool down before performing any maintenance.
- ✓ Never wear clothing or jewelry to lose that can be caught on moving parts.
- ✓ Please wear safety shoes to avoid any risk due to falling objects from the machine or risks during its transportation.
- ✓ Never tilt the machine at an angle of over 30 degrees, to avoid falling and hurting people.



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Tray sealer | TS-200 & TS-200 GF

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1. Introduction

In this manual you will find the necessary information and instructions for installation, set-up, operation, use and maintenance of the machine.



This machine should only be used by people, who can read, understand and follow the warnings and instructions in the manual.

Read the manual carefully before turning the machine on. If in doubt about the operation or management of the machine, consult the manual again, and if after this the problem or concern is not solved, contact your supplier.

2. Specifications of the machine

	TS-200 / TS-200GF
Maximum dimensions	529 x 563 x 480mm
Maximum packing dimensions	770 x 730 x 700 mm
Weight	54 kg
Motor	45W
Resistor	0,8 kW



3. Warnings

The security or legal liability will be voided if the damage has been done by repairs and / or modifications not performed by qualified staff approved by the manufacturer of the machine or one of its authorized distributors. In case of malfunction, contact the supplier.



Always clean the machine with products without solvents, as they may damage it.



If performing maintenance never keep the machine running while performing maintenance.



ALWAYS REMOVE THE PLUG FROM POWER WALL.



4. Precautions

4.1. Machine's assignment

In case of transferring the machine it is necessary to report TALLERES RAMON, S.L. the address of the new owner to facilitate sending the modified manual to him.

4.2. General safety standards

Always follow the safety rules contained in this manual.

The manufacturer declines related responsibilities of a misuse of the machine.

The supply voltage must match the voltage at which the machine is plugged.

ATTENTION!

When the machine is not in use should be protected from any possible involuntarily caused tampering. Sign out the cable from the mains supply.

RULES FOR SAFE OPERATION.

Check, before starting work, the presence of any visible defects on the safety devices.

MAKE SURE:

** When the machine is started-up, it should not make any strange noise. If so, stop it immediately to find the possible cause. If not, warn technical assistance.

4.3. Before start-up

Do not operate or regulate in any way the elements of implementation, control, etc. if it is unauthorized and / or operation is not known.

Before starting work, the operator must verify the presence of any visible defects in the control and safety devices of the machine.

Do not leave unauthorized staff next to the machine.

The operator must be trained for the right emergency stop operation of the machine and should be checked regularly.

In case of problems that may affect the safe operation of the machine, it must be disconnected.

If by installation requirements, maintenance and repair is inevitable removing any safety device element, this can only be done by authorized people, which perform such work by not entailing any damage nor to people neither to the machine.

5. Warranty

The warranty of the machine is valid for a period of one year, counting from the day of delivery of the machine.

5.1. Restrictions

This warranty does not apply to:

- a) Repairs or spare parts reparations that are not necessary due to a defect in material and/or workmanship from the manufacturer and are caused by:
 - 1.- Repairing a damage following an accident.
 - 2.- Defects caused by improper handling and/or carelessness.
 - 3.- Repairs carried out by third party, other than an official representative and damage caused by repairs by the owner and include parts assembled from the time of these repairs.
- b) The warranty does not cover the gaskets, pistons and other parts subject to normal wear and tear.
- c) The electronic components of the machines do not fall under warranty.
- d) The manufacturer is not responsible for modifications outside the origin of the machine the ones that are set out in this document.
- e) The manufacturer is not responsible for failures caused by misuse of the device.
- f) The manufacturer is not responsible for the operation and quality of the machine if it implies the default in the present INSTRUCTIONS.

5.1.1. Limitations of liability and resources

The manufacturer and distributor are not responsible for the consequences, direct or indirect damage caused by a defect.



6. Responsibilities

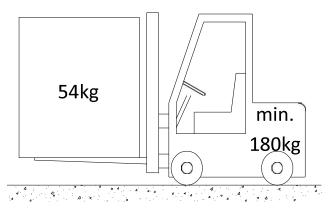
- a) Any liability which is not established by law will be rejected.
- **b)** The liability of the manufacturer and / or supplier does not in any case exceed the total value of the machine.
- c) With the exception of the general legal rules of public order, the liability to pay damages of any kind is not assumed (including business losses, real or personal property or injury to persons, whether related to the counterparty or third parties.)
- **d)** The manufacturer and / or supplier shall not be liable for damages arising from use of the product that not be appropriate for the purpose for which it was purchased.

7. Installation

In the following section all aspects of the machine installation, whether concerning transport, placement, wiring and packing characteristics will be discussed.

7.1. Transport

- The machine should be transported vertically. Do not bend, otherwise it could damage the pump besides risking the machine of overturning and cause other damage.
- The ambient temperature for the machine to operate properly should be between 5 ° C and 30 ° C. If you plan to use the machine in a different ambient temperature, contact the supplier.
- The weight of this machine is about 54kg; therefore, it is recommended that the capacity of handling equipment exceeds 180kg.
 If you are not sure of the ability of the loading equipment, please contact the manufacturer.



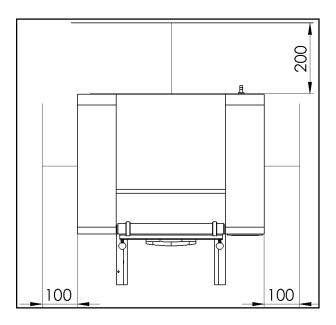
- The machine must be lifted and transported by qualified operators.
- When handling the machine, no person or car should be allowed to come next to it.



• During this operation, take care of people or obstacles not being in the path of the machine and its surroundings. If so, correct it before handling the machine.

7.2. Placement

- Place the machine on a flat and levelled surface. This is essential for the machine to work properly.
- Leave enough space around the unit for ventilation. The space must be at least 5 centimeters.
- The required space for installation includes the operator and the machine requirements:



- Whether moving or operating the machine, always check the balance of it in advance.
- Avoid installing the machine in an area where there is dust or corrosive acids, etc.
- Avoid installing the machine in an area where there are vibrations.
- Avoid installing the machine under the sun or close to steam. This can affect its efficiency.



Do not install the machine in a potentially explosive environment.

ATENCIÓN

ESTA MÁQUINA DEBE CONECTARSE A UNA TOMA CON CONEXIÓN A TIERRA.

ESTA MÁQUINA DEBE INSTALARSE EN UNA SUPERFICIE HORIZONTAL Y ESTABLE.

WARNING

THIS MACHINE MUST BE CONNECTED INTO AN EARTHED PLUG.
THIS MACHINE MUST BE INSTALLED ON A HORIZONTAL AND STABLE SURFACE.

ACHTUNG

DIESES GERÄT MUSS AN EINEN STECKER MIT ERDVERBINDUNG ANGESCHLOSSEN WERDEN.

DIESES GERÄT MUSS AUF EINER EBENEN FLÄCHE INSTALLIERT WERDEN.

ATTENTION

CET APPAREIL DOIT ÊTRE BRANCHÉ À UNE PRISE DE TERRE. CET APPAREIL DOIT ÊTRE INSTALLÉ SUR UNE SURFACE HORIZONTALE ET STABLE.

ATENZIONE

QUESTO APPARECCHIO DEVE ESSERE COLLEGATO AD UNA PRESA DI TERRA.

QUESTO APPARECCHIO DEVE ESSERE INSTALLATO SU UNA SUPERFICIE

ORIZZONTALE E STABILE.

7.3. Electric connection

- Check that the voltage indicated on the label of the machine (Paragraph 10.2. Of this manual) is equal to the supply voltage.
- Always connect the machine properly grounded to prevent electric shock or hazards (the ground connection is green/yellow).
 - The power cord must be loose, freely moving, and nothing should be placed on it.
 - If the power cord is damaged for any reason, it must be replaced immediately.
- If there are problems with the machine and maintenance needs to be run, disconnect the machine from the mains before starting to work on the machine.
- If you envisage that you will not use the machine for a long period of time, you should always turn the power off.



7.4. Gas (only in GF model)

- Connect the hose from the gas bottle sleeves coupling to the back of the machine and secure with clamp sleeves.
- The diameter of the nozzle fitting sleeve for the gas cylinder is 6 mm.



Danger of explosion using gas mixture high oxygen.

- Gas cylinders must always be properly placed and secured. If the gas extraction function or the machine is not in use, the valve of the gas cylinder should always be closed.
- The pressure of the reducing-pressure valve of the gas bottle

must not be higher than 2 bar.

A higher pressure may damage the machine.







8. Start-up

a) Precautions before and after the start-up of the machine



BEFORE USING THIS MACHINE READ AND UNDERSTAND THE **CONTENTS OF THE MANUAL IN ITS ENTIRETY**

Check that the voltage is correct.



Check that the current intensity is enough.



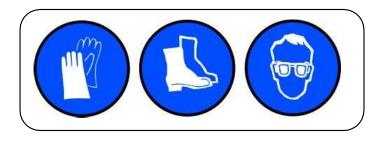
- Check that the safety elements have not been affected by transport and make sure that no one is in the danger zone.
- Inspect visually that all mechanical and electrical components are in place and have not suffered any damage during transport.
- Make sure that the surroundings of the machine are clean.

b) Sequence of start-up

- 1. Connect the power supply.
- 2. Turn on the machine with the main button (see Section 9).
- 3. Connect the gas connector to the gas connection (if you will be using it).

c) Precautions after start-up

- Make sure that the digital panel works properly.
- Wear safety boots and other protective clothing and PPE to protect the health and safety of the operator.





9. Description of the functions

Symbol	Nο	Name	Description
	1	Display	It displays the sealing time, sealing temperature, and entry time of flushing gas.
	2	LED of emergency	This LED will light up when the machine, for some reason, has been locked, and won't turn off until it is unlocked.
• • • • • • • • • • • • • • • • • • •	3	LED of temperature	If this LED is lighted up, it means the machine has not reached the selected temperature yet.
END	4	LED of end of cycle	This LED will switch on when the machine has reached the selected temperature and is ready for use.
	5	Button +	It increases the value shown in the display.
	6	Button -	It decreases the value shown in the display.
	7	Sealing time	When pressed, shows the current sealing time in the third display and allows to modify it.



	8	Temperature control	When pressed, the display shows the current temperature and allows modification.
GAS	9	Gas injection timer	When pressed the display shows gas injection timer and allows modification.
RESET	10	Reset	This button unlocks the machine if it was locked for some reason.

Overview of the control panel:



10. Programming functions

The machine is shipped with standard programming. If you want to reprogram the machine for any reason, please contact the supplier or manufacturer.

11. Use of the machine

First, once connected the machine to the mains we will press the switch located at the back of the machine.

Once the machine has voltage, we will select first the desired operating temperature; this temperature can vary depending on the type of material used, both in the tray-like film. If we must change this temperature, we must press the No 8 button and then, by using the n^{o} 5 and n^{o} 6, we must increase or decrease the temperature according to our needs.

When we have set the sealing temperature, we will select the sealing time. By selecting button n° 7, we indicate the actual sealing time, if we need to change, once the No. 7 button selected, we will press the n° 5 and 6 buttons to increase or decrease the sealing time.

In case of using gas, the procedure is the same: we will press the number 9 key and through the nº 5 and 6 the time gas injection will be configured.

It is very important to leave this parameter to "0" if you are not using the option of gas.

After setting up the panel with the required parameters and once the machine has reached the optimum temperature (at that time the machine will beep) the machine is ready to work.

The first step we must do is placing the roll of film in the proper position; ALWAYS we will put the roll of film with the inside touching the tray.

Then spend the film by the hold-down plate and let the film be pressed between the mold and the bar magnets.



12. Maintenance

If you want the machine to have a long life is essential to make a good maintenance, regular and complete, this way will avoid breakdowns and sealing quality will be always optimal.

If you give normal use to the machine, it is enough to perform a complete inspection each year; however, if more intensive use is given, it is necessary to check completely every six months.

If there is any doubt about the maintenance detailed below or if the machines are not working properly, contact the supplier or manufacturer.



Reparation or maintenance should be done only by qualified personnel, and with the express consent of the manufacturer.

12.1. Maintenance plan

Element		Activity	Period	
			Break	Diary
1	Mold drawer	Cleaning		
2	Mold	Silicone gasket replacement		
3	Blade	Blade replacement		

12.2. Mold drawer 12.2.1. Cleaning

If the vacuum process is complete, use a <u>clean damp cloth to clean the drawer mold.</u>



ALWAYS DISCONNECT THE PLUG FROM THE WALL OUTLET

12.3. Mold

12.3.1. Replacement silicone gasket

As time goes by, it is likely to crack or break completely the perimeter silicone gasket belonging to the molds. In this case you need to replace it with a new one. In this case, simply remove the old gasket (use pliers to clamp if necessary), and insert the new silicone gasket. Make sure that the measure is indicated, without leaving gaps and without costing too much work to introduce the new gasket.

12.4. Blade

12.4.1. Blade replacement

Is normal that over time, the blade will gradually lose the cutting edge up to the point where it will not properly cut the film. At this point, you need to change the old blade for a new one of the same characteristics.



13. Fault diagnosis

Problem	Reason	Solution
Sealing of very poor quality	The sealing temperature is too low or too high. Either the sealing time is too high or too low.	Increase or decrease the temperature. If that is not enough, increase or decrease the sealing time.

If applying the solution to your problem, does not solve it, contact your dealer or manufacturer.

14. Accessories and machine environment

14.1. Accesories

a) Electro gas injection valve: 7 mm (solo en versión GF)

14.2. Sound level

✓ 80.4 db (A)

14.3. Storage conditions

✓ Temperature: 0-45 °C✓ Humidity: 20-95 % RH

14.4. Operating field

✓ Temperature: 0-45 °C✓ Humidity: 20-95 % RH

✓ Altitude: 0-1000m (from sea level)

14.5. Space requirements

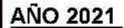
It is necessary to provide enough space for heat emissions, management and maintenance.

The machine should be installed away from the other machines.



15. Plate with features

On the right side of the machine base and in the lower right corner, the plate is placed according to the pattern shown below.



SERIE

MODELO

Nº FABRICACIÓN



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