



Induction Sealer

Models: LGYF-2000AX-II

Distributed By:

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Printed in the United States of America

General Information

Thank you for purchasing our LGYF-series induction sealer

This owner's manual contains information relating to your sealer. The manual will provide you with basic information concerning both operation and maintenance of your new machine. Please read it carefully as failure to do so may result in bodily injury and/or damage to the equipment.

Please fill in the information below. You will find the information on the machine identification plate. You will need this information when ordering replacement parts or making technical inquiries.

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EQUIPMENT INFORMATION

❖ Model #

❖ Serial #

❖ Purchase Date:

❖ Reference # (found on packing slip)

❖ Owner:

Important - Please read

The development of a good safety program, that is rigidly enforced, is absolutely imperative when involved in the operation of industrial equipment. Our machinery is well designed and includes extremely important safety features. The part you the user play through proper installation and maintenance procedures is of far greater significance than our designs. Only properly trained individuals following rigidly enforced safety rules, as recommended by A.N.S.I. and O.S.H.A., should be allowed to operate these machines.

Unpacking

Thoroughly Inspect Equipment Upon Arrival

If goods are received short or in a damaged condition, it is important that you notify the carrier's driver before he leaves your company and insist on a notation of the loss or damage across the face of the freight bill. Unless this is done, no claim can be enforced against the transportation company.

If concealed loss or damage is discovered, notify the carrier at once and insist on an inspection. This is absolutely necessary! A concealed damage report must be made no later than ten (10) days from the date the shipment was delivered. Unless you do this, the carrier will not consider any claim for loss or damage. The carrier's agent will then make an inspection and grant a concealed damage notation. If you give the transportation company a clear receipt for the goods that have been damaged or lost in transit, you do so at your own risk and expense.

All claims must be filed within six days of delivery date or carrier will not accept them.

Sealer Sales, Inc. is willing to assist in every possible manner to collect claims for loss or damage; however, this does not hold Sealer Sales, Inc. responsible for collection on claims or replacement of material.

Do not throw away damaged pallets or box until freight inspection has occurred.

Safety Instructions



WARNING! *Below are general safety precautions and warnings that should be understood prior to setting up or operating your equipment. Read and fully understand all instructions and warnings prior to using this unit. Your safety is most important! Failure to comply with procedures may result in serious injury or property damage. Remember: Your personal safety is your responsibility.*

Unsafe practices or unauthorized modifications could result in accidents or property damage. Failure to follow these safety rules and take necessary precautions can result in serious injury as well as damage to equipment.

- ❖ Never operate or service your induction sealer until you have read this manual completely and understand it fully. Make sure the machine operators and others working on the machinery are properly trained in the correct usage of the equipment and properly instructed regarding the safety procedures of operation.
- ❖ Do not tamper with the electrical wiring. Unit operates on 1 ϕ , 220V/240V power. Make sure the induction sealer is installed by a qualified electrician in accordance with local electrical codes. Always disconnect the electrical power before attempting any maintenance to all electrical and/or moving parts.
- ❖ In order to prevent injury to personnel and/or machinery, do not increase settings or ratings on either electrical or mechanical overload safety devices.
- ❖ Do not use the induction sealer if the power cord, plug or any other parts are damaged. Do not to allow the power cord to drape into your work area. Check that all parts are operating properly and perform the intended functions. Check for all other conditions that may affect the operation.
- ❖ Reduce risk of unintentional starting. Make sure all switches are in the "OFF" position before connecting to the power source.
- ❖ Always disconnect induction sealer from power source before servicing, changing accessories or cleaning the unit.
- ❖ To provide protection against the risk of electrical shock, the power connection must be properly grounded at all times.
- ❖ Do not leave the induction sealer unattended when in use. Disconnect the induction sealer from the power source before leaving the work area.
- ❖ Induction sealer is used solely for sealing plastic caps. Using the machine for any other purpose can cause damage to the machine and operator. Do NOT use the machine for any other purpose. Doing so may result in damage to the machine and injury to the operator.
- ❖ Before operating, please makes sure no foreign objects are located in the induction sealer.
- ❖ Always operate machine on a flat stable surface.

- ❖ While operating machinery, wear close-fitting clothing and tie back long hair to prevent any external items from getting caught in the machine. Do not wear jewelry when operating the induction sealer.



- ❖ While machine is operating do not place hands in the sealing head.



- ❖ While machine is in operation, do not place fingers, tools, or other foreign objects on or into the machine. Do not touch any moving parts while machine is operating. Fingers may get caught in between the gears and cause significant injury.
- ❖ Induction sealer is NOT washdown rated. The sealer is not water resistant or water proof. Spraying down the machine will damage machine or cause electrical shock. Do not submerge the induction sealer into water or liquid.
- ❖ Do not operate induction sealer in a corrosive or humid environment. The induction sealer must be operated in a dry, clean, dustless, non-corrosive air and ventilated environment.
- ❖ Please do not operate the induction sealer near any heat sources.
- ❖ Always keep the machine clean, lubricated and in good working condition. Follow any maintenance and lubrication procedures outlined in this manual. Make sure unit is disconnected from power source before cleaning.
- ❖ Any modifications to either the electric circuitry or the mechanical assemblies of the machinery will void any warranties associated with this equipment. Such modifications may introduce hazards that would not otherwise be associated with this machinery. Sealer Sales will not be responsible for any consequences resulting from unauthorized modifications. Doing so will VOID YOUR WARRANTY.
- ❖ Never leave the induction sealer unattended. Be safe, disconnect the induction sealer from power source before leaving work area.
- ❖ Close supervision is necessary when any appliance is near children or persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge . This sealer is NOT to be used by children or by persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge.
- ❖ Good housekeeping is a good safety practice and aids in improving machine efficiency. Keep the induction sealer and the area around the induction sealer clean at all times.
- ❖ DO NOT use the induction sealer outdoors.
- ❖ DO NOT use the induction sealer while under the influence of drugs, medications or alcohol.

SAVE THESE INSTRUCTIONS - REFER TO THEM OFTEN AND USE THEM TO INSTRUCT OTHERS.

Introduction

LGYF-series induction sealers are designed to seal an aluminum laminated liner to the top of plastic containers to create a tamper proof product. The induction sealer is suitable for containers such as plastic bottles, ABS, PE (HDPE, LDPE), PET, PP, PS, or PVC. The induction sealer is not suitable for glass or metal containers. Induction sealing creates a tamper proof product as well as prolonging a product's shelf life. This induction sealer is ideal for pharmaceutical, chemical, food, beverage, and cosmetic industries.

Features of the LGYF-Series Induction Sealers

Your induction sealer is equipped with a wide range of standard features and capabilities.

- ❖ Easy to operate – minimal operator training
- ❖ Fast warm up time
- ❖ Forced air cooling system
- ❖ Stainless steel
- ❖ Adjustable conveyor speed (up to 393 inches/min)
- ❖ Voltage – 220V

How Do Induction Sealers Work?

What is induction cap sealing?

Induction sealing is a process that seals a metal liner to the mouth of a bottle to protect its contents from contamination or leakage. Induction sealing is a non-contact heating process of hermetically (“air tight”) sealing rigid containers with a cap to provide a container that is tamper proof and can preserve freshness, deter pilferage, and prevent leakage while providing product integrity. The process is simple and can accurately be repeated.

How does this sealer work?

The sealer uses electromagnetic induction heating to seal the cap foil to the sealing object. When the aluminum foil is heated by the induction coil, the heat is then transferred to the heat seal film, which quickly reaches the melting point and becomes an adhesive to bond the cap foil and bottle.

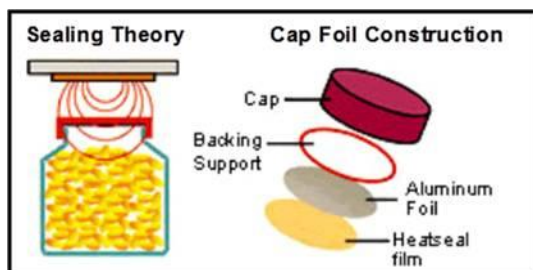


Figure 1. Induction cap sealing

Specifications

Voltage	220V/50Hz
Amps	<10A
Power	≤1500W
Operating Frequency	75-85KHz
Capacity	3-10m/min (393"/min)
Sealing Diameter	30-120mm (1.18" - 4.72")
Suitable Height of Bottles	40-300mm (1.57" - 11.8")
Maximum Bottle Diameter	200mm (7.8")
Conveyor Bearing Load	<20Kg (44-lbs)
Weight	110-lbs
Dimensions (L x W x H)	44" x 24" x 16"

Getting to Know your Induction Sealer

Our LGYF-series induction sealers are simple and efficient sealing machines.



Figure 2. LGYF-Series Induction Sealer Overview



Figure 3. LGYF-Series Induction Sealer Control Panel

Circuit Schematic Diagram

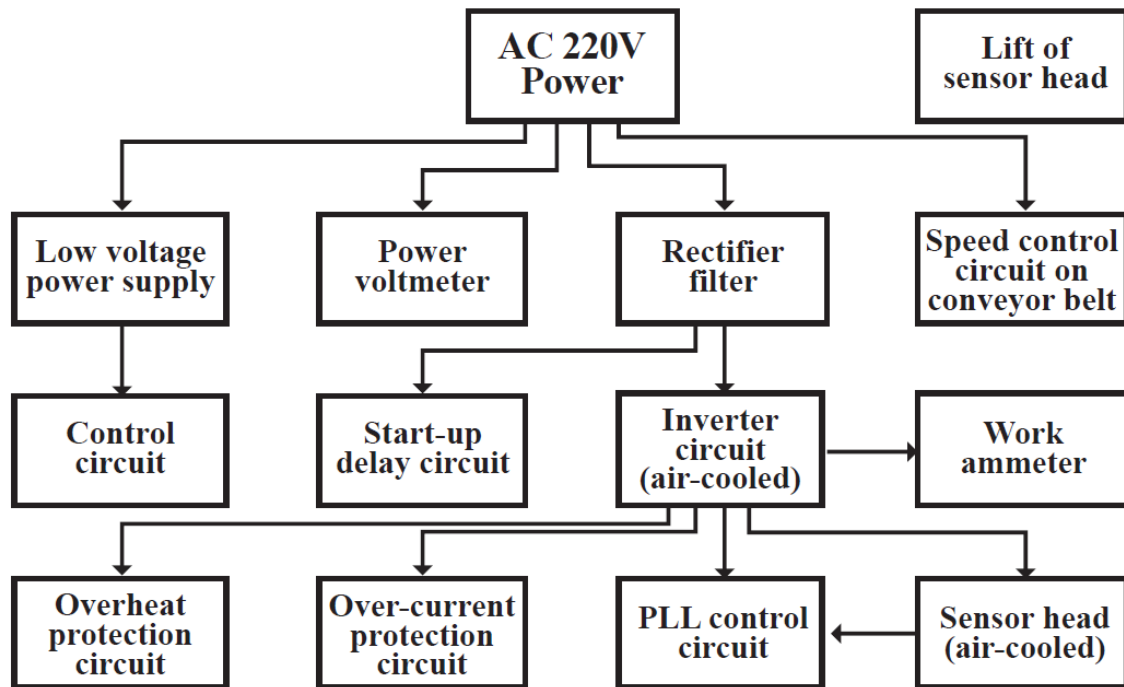


Figure 4. Circuit Schematic Diagram for LGYF-2000AX-II Induction Sealer

Induction Sealing Requirements

1. The induction sealer is applicable for the sealing of plastic containers, this induction sealer is not suitable for glass or metal containers.
2. Choose the appropriate induction cap sealing film. The material of the induction film should be the same as the material of the container to be sealed. The aluminum foil of the induction film should be between 0.012-0.03mm. For foil layers less than 0.012mm, sealing quality may not be assured.
3. Induction sealing caps must be threaded and closed tight on the bottle before placing the bottle on the induction sealer conveyor. The pressure of the threaded cap upon the bottle provides the required pressure. As the sealing layer cools it adheres to the bottle.

Operating your Sealer

Initial Set-up

Please inspect the induction sealer for any obvious signs of damage, which may have occurred during shipping. If any signs of damage are detected, please contact your distributor immediately.

Place the induction sealer in the desired position with the required electrical power source available. Make sure your electric wiring is adequate to guard against low voltage. If the voltage is too low, the equipment will not perform properly.

Finding the proper location is a most important function of the initial set-up. One must take several factors into consideration:

- ❖ Adequate power source
- ❖ Relationship to source of product
- ❖ Relationship to induction sealer
- ❖ Relationship to any conveyors necessary to remove finished product
- ❖ Convenience of operator

Operation Set-up

1. Your new induction sealer packaged in a wooden crate. If your machine does not arrive in this condition, write on shipping paperwork that the box is damaged. Concealed damage may have occurred.



Figure 5. Induction sealer is packaged in a crate

2. Place the machine on a stable work surface.

3. The induction sealer should be used in a dry, clean, dustless, non-corrosive air and ventilated environment. Please keep the induction sealer away from all kinds of heat sources. **Long time exposure to humid or corrosive environments will shorten the life of the machine.**
4. Use the height adjustment guide to create a space of about 1-3mm between the induction sealing head and the top of the cap to be sealed. **(Figure 6)**



Figure 6. Knob to adjust the height of sealing container

5. Use the conveyor guides to adjust for the width of the container to be sealed. Make sure the container to be sealed is in the middle of the conveyor. **(Figure 7)**



Figure 7. Adjust guides with allen wrench



Figure 8. Adjust cap diameter guide based on sealing cap diameter

6. Adjust the cap diameter guide based on the sealing cap diameter. (



Figure 8)

Operation

1. Connect the induction sealer to a 220V outlet. ****Do not plug sealer in a 110V outlet as this could damage the sealer****
2. Turn on the power switch. This will start the cooling fan. Allow the cooling fan to run for about 5-10 seconds before turning on the seal switch. Check the voltage meter to ensure normal voltage.



Caution: Do not turn on and off the power switch many times. You must wait at least 5 seconds after turning off the power switch to restart it. By disregarding this advice, you will damage the main circuit board of the machine.

3. Make necessary adjustments to the height adjustment guide, cap diameter guide, and conveyor guide as discussed in Operation Set-up.
4. Press the seal switch to begin sealing.
5. Place the container with cap on the conveyor to test the seal. Open the cap and test the induction seal. If the seal is not strong, decrease the speed. If the induction cap shows signs of burn marks, increase the speed of the conveyor.
6. Using trial and error to find the optimal working conditions, we would recommend writing this down for future reference.
7. When the working sealing current exceeds 5A, the passing current protection function of the machine will start and the conveyor will stop automatically. You should increase the spacing between the induction head and the object sealed to reduce the working sealing current. Then, push the seal off switch first. Then, press seal on switch.
8. When the temperature of the main circuit of the induction sealer is too high, the overheat protection function will start and the equipment will stop. Once temperature has come down, the sealer will start again.

Maintenance

1. The induction sealer needs to be in an environment that is clean and dry. Do not operate induction sealer in a corrosive or humid environment. The induction sealer must be operated in a dry, clean, dustless, non-corrosive air and ventilated environment.
2. Induction sealer is NOT washdown rated. The sealer is not water resistant or water proof. Spraying down the machine will damage machine or cause electrical shock. Do not allow any part of the machine to be in contact with water.
3. Do not open the induction head or inside the induction sealer.

Spare Parts List

- ❖ Fuse (10A) -3pcs
- ❖ Socket screw wrench - 4", 6", 8"