Induction Sealer
Model: DGYF-S500A

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General Information

Thank you for purchasing our DGFY 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.

EQUIPMENT INFORMATION

- Model #
- Serial #
- Purchase Date:
- Reference # (found on packing slip)
- Owner:

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 sealer until you have read this manual completely and understand it fully.
- Plug the sealer into a standard 120 Volt, 50Hz wall outlet or surge protector.
- 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. 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.

- 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.
- 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, medication or alcohol.

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

Introduction

DGYF-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 DGYF-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
- Sealing timer digital display (seconds and tenth of seconds) ensures accurate sealing
- Automatic overheat protection
- Speed: up to 20 seals per minute
- Suits small and medium workloads or as a back up to continuous systems

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. The sealing container and heat seal film must be made of the same material.

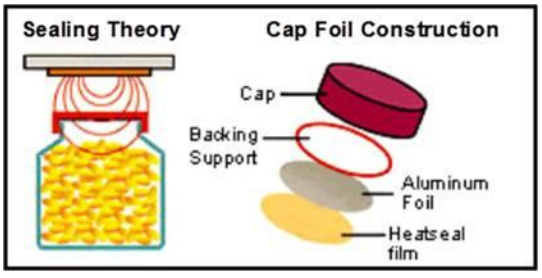


Figure 1. Induction cap sealing

Specifications

	DGYF-S500A	DGYF-S500B	DGYF-S500C	DGYF-S500D
Power	110V/60Hz			
Watts	500W			
Work Frequency	50Hz (±20%)			
Sealing Diameter	0.8" - 3.9" (20-100mm)	0.6" - 1.4" (15-35mm)	2.4" - 5.1" (60-130mm)	0.8" - 2.4" (20-60mm)
Static Power Consumption	≤0.1A			
Max. Allowable Current	<4A	<4A	<7A	<4A
Working Ambient Temperature	77ºF - 113 ºF			
Relative Humidity	≤95%			
Relative Height Above Sea Level	≤9,842ft			
Dimensions	13.4" x 11.4" x 5.1"			
Housing Protection Grade	IP21			
Safety Standard	GB15579 and 1995			
Weight	13-lbs			

Getting to Know your Induction Sealer

DGYF-Series Induction Sealers are simple and efficient sealing machines.

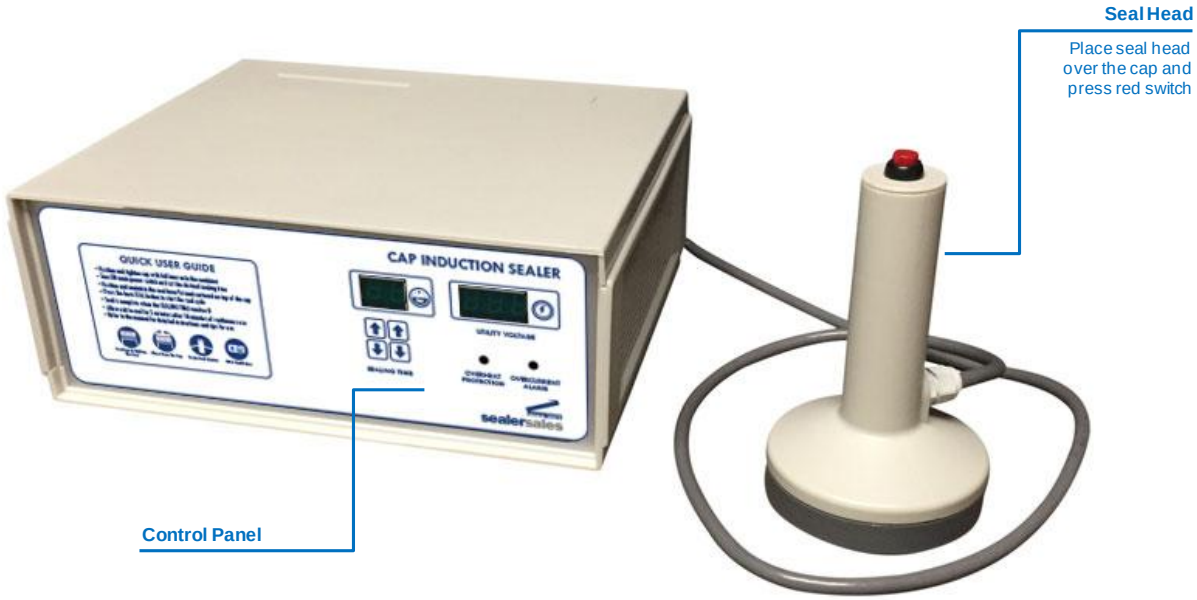


Figure 2. DGYF-S500A Induction Sealer Overview

Operating your Sealer

Important

Read this manual carefully, and make it available to everyone connected with the supervision, maintenance, or operation of this machine. Additional copies are available at your request. (Contact your distributor for this information.) Be very careful when operating, adjusting, or servicing this equipment. If in doubt, stop and obtain qualified help before proceeding.

Installation

Place the sealer in the desired location with the required electrical power source available. (See power requirements.)

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
- Convenience of operator

Operation

1. Turn on the on/off switch at the back of the unit.
2. Screw the induction cap to the container
3. Center the seal head on top of the cap.
4. Press the red start button to activate induction sealing. Hold the red start button until the timer reaches zero.

Figure 3. Main on/off switch is located in the back of the unit.

Figure 4. Press the red start button to initiate sealing process.

5. Open the cap on the container and check sealed liner on the cap.
6. Adjust the timer settings as necessary and repeat the sealing process. The arrows on the left adjust up and down the seconds and the arrows on the right adjust up and down 1/10th of second.

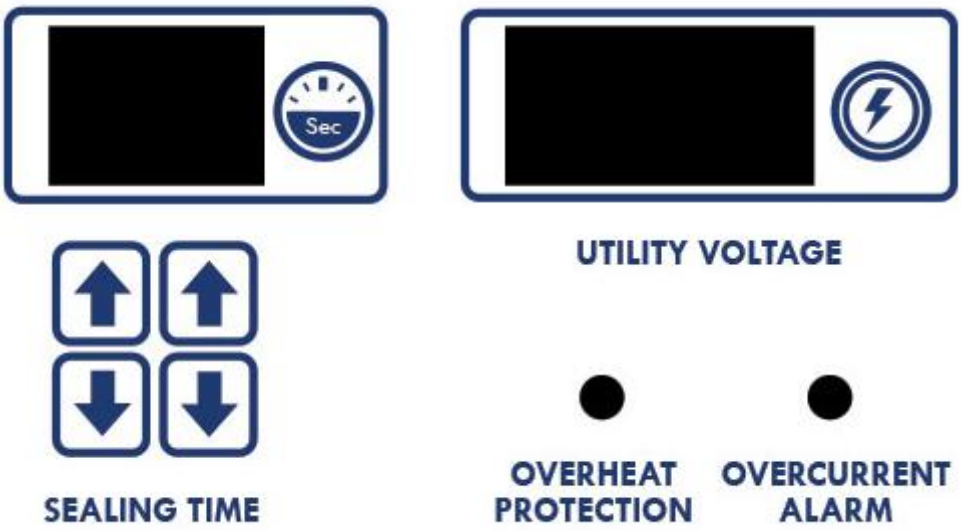


Figure 5. Control Panel

Parts Diagram

Attached Drawing

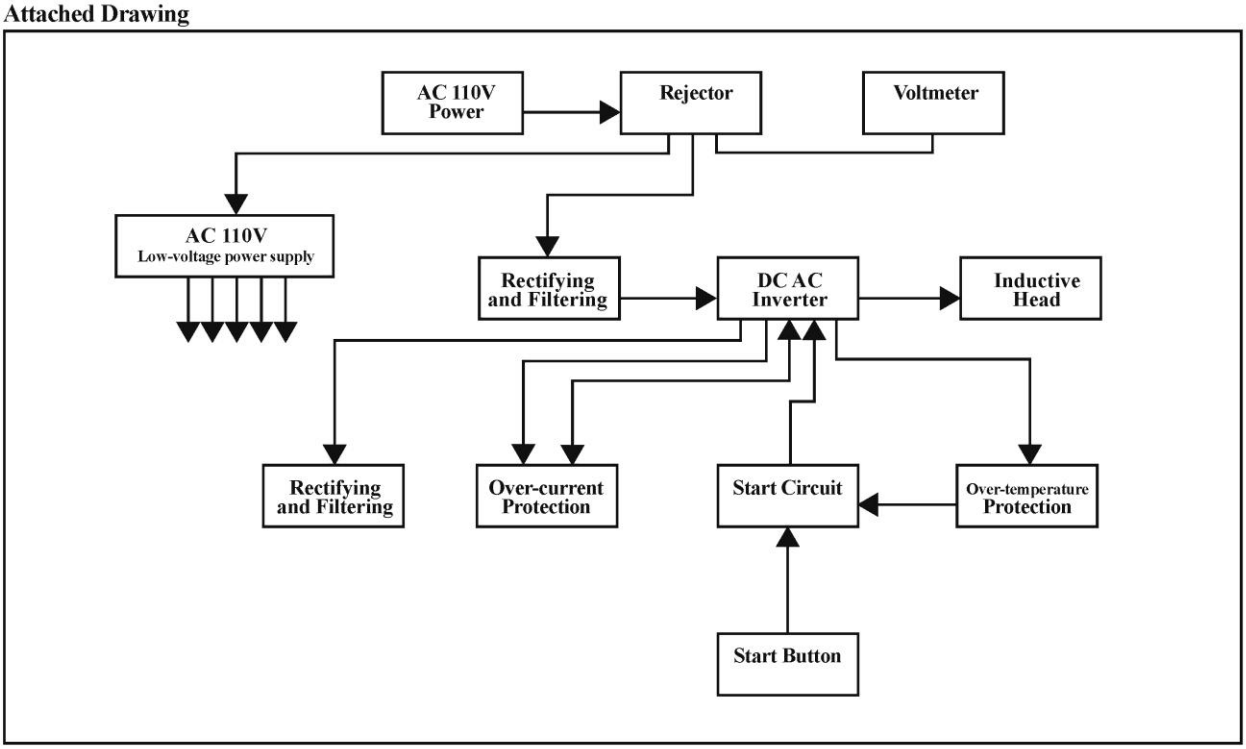
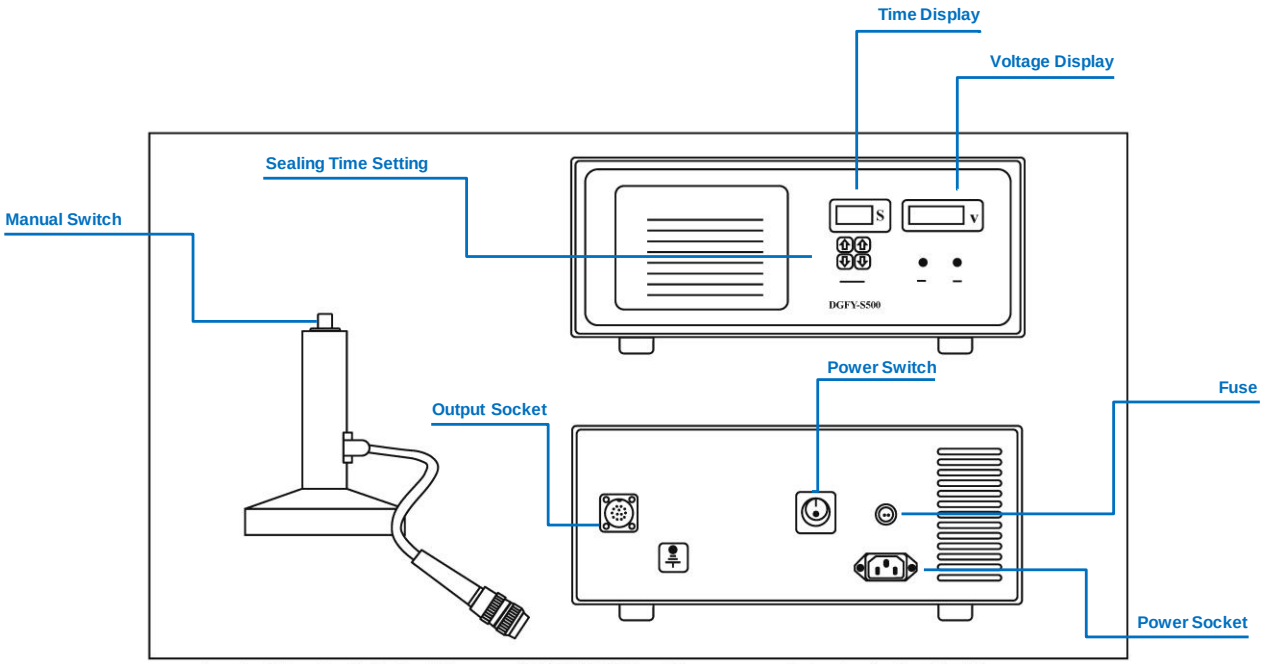


Figure 6. Electric Circuit Diagram Overview



Attached Drawing 1. Outline Diagram of DGFY-S500 Type Electromagnet Induction Sealing Machine

Figure 7. Spare Parts Diagram Overview

Troubleshooting

Problem	Possible Causes	Solution
Power turned on No indicator lights	1. Broken fuse 2. Poor connection with the power plug	1. Replace the fuse 2. Check the power plug connection
Power turned on Timer inactive when switch is activated	1. Broken switch 2. Poor connection with the power plug 3. Broken sealing head	1. Replace switch 2. Check the power plug connection 3. Replace the sealing head
Power turned on No sealing	1. Sealing time is too low 2. Material of film and sealing object not compatible 3. Broken sealing head	1. Increase seal time 2. Change film material or sealing object 3. Replace the sealing head
Power turned on No sealing Overheat indicator light on (yellow)	Sealer is too warm	1. Discontinue use of unit until light turns off 2. Allow unit to cool for five minutes after ten minutes of continuous use
Power turned on No sealing Overcurrent indicator light on (red)	Too mcuh current	Move the induction sealing head from jar and cap surface until the light turns off
Wrinkled and/or melted seal	Seal time is set too high	Decrease sealing time
No seal	Seal time is set too low	Increase seal time