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**LDD-4**

**GALISO LIGHT DUTY DRYER**

**INSTALLATION/OPERATION INSTRUCTION MANUAL**

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**!!!DANGER!!!**

**DO NOT USE THIS EQUIPMENT TO  
PURGE TOXIC OR FLAMMABLE GAS**

**AND**

**DO NOT USE THIS EQUIPMENT UNDER  
FLAMMABLE, VOLATILE OR TOXIC  
ENVIRONMENTAL CONDITIONS**

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## 1.0 INTRODUCTION

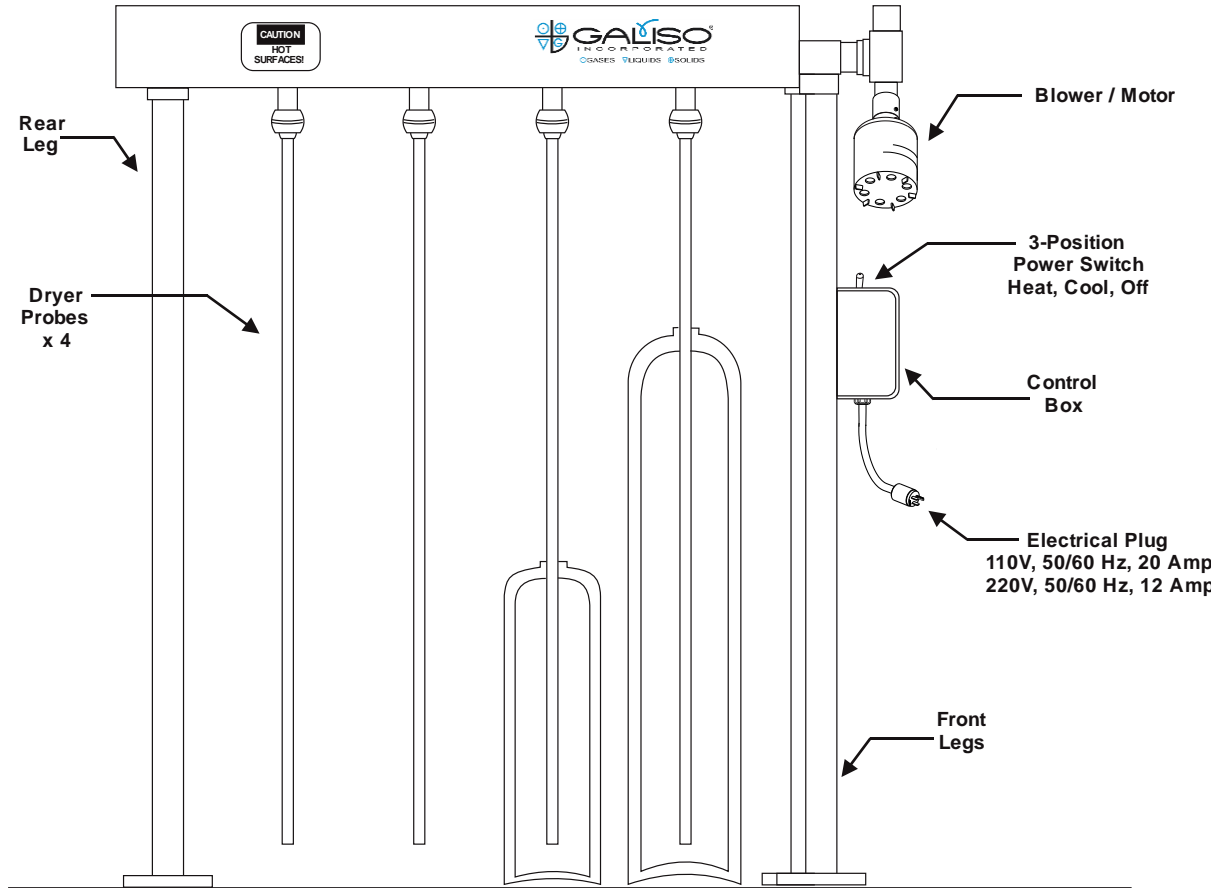
The LDD-4 Galiso Light Duty Dryer has been designed to quickly dry up to four drained cylinders in a matter of minutes.

The LDD-4 Cylinder Dryer features a heavy duty blower and can generate 95 CFM of hot or cold air. The built in Dryer motor is quiet, and can produce temperatures up to 175°F to accelerate the drying of steel and aluminum cylinders. “Cool” can be selected to use non-heated air for protection of fiber wrapped or composite cylinders.

The LDD-4 series Dryer is available in 110 Volt 50/60Hz or 220 Volt 50/60 Hz options.

In addition to the LDD-4 series cylinder dryer, Galiso<sup>®</sup> also offers the Heavy Duty (HDD) for large cylinders, the Galiso Cylinder Dryer (GCD-4) and the Small Cylinder Dryer (SCD) for washing and drying small cylinders.

## 2.0 SPECIFICATIONS



**Figure 1, LDD-4 Galiso Light Duty Dryer**

Power Requirements: 110 Volt, single phase, 50/60Hz, 20 Amp  
 220 Volt, single phase, 50/60 Hz, 12 Amp

Blower Motor: generates 95 CFM of hot or cold air.

Dimensions (frame and blower assembly): 59x20x72

Capacity: up to 4 – 60” tall.

Decibels: from 5 dB to 75.7dB

Warranty: One Year (see Galiso Warranty Terms, Form No GSO7805-1).

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### 3.0 SAFETY

Read all instructions before attempting to install or operate this machine. GALISO, INCORPORATED IS NOT RESPONSIBLE FOR DAMAGE OR INJURY CAUSED BY UNSAFE USE, MAINTENANCE, APPLICATION, MODIFICATION OR IMPROPER INSTALLATION OF THIS MACHINE. Please contact Galiso, Inc. for guidance when you are in doubt as to the proper safety precautions to be taken when installing or operating this machine.

- A. Take care to keep the work area around the LDD-4 clean, dry and free of debris. This will decrease the chance of operator injury due to slips or falls.
- B. Always wear gloves, eye protection and foot protection while operating the LDD-4.
- C. The LDD-4 Dryer is capable of producing considerable heat. Use insulating gloves to protect hands against possible burns from hot areas and items.
- D. Do not cover motor fan cowl. Do not drop screwdrivers, nails, etc., into the openings of the fan cowl.
- E. Make sure to bolt, lag or clip the LDD-4 securely to the floor.

### 4.0 INSTALLATION

- A. Read all instructions and familiarize yourself with the installation blueprints before attempting to install or operate the LDD-4 Cylinder Dryer.
- B. Carefully uncrate the LDD-4 Cylinder Dryer and remove all packing materials.

If there are any missing or damaged parts, please call Galiso, Inc. at 1 (800) 854-3789 and DO NOT attempt to install any pieces until concerns and possible safety issues have been discussed.

- C. The installation location should insure adequate clearance for unprotected shop personnel, and close to the power outlet.
- D. After the Dryer has been placed in its permanent location, bolt, lag or clip to the floor.

## 5.0 OPERATION

- A. Galiso, Inc. recommends a warm up time of approximately 2 minutes at the start-up of the machine. Switch the Power Switch to the HEAT position. After the warm up, the Power Switch can remain in the HEAT position, or be switched to COOL or OFF
- B. Check that the cylinders are emptied and drained of water.
- C. Invert drained cylinder and place upside down with a manifold outlet inserted into the cylinder neck.

### **! CAUTION !**

**Avoid bending or otherwise damaging the tube.**

- D. When cylinders have been loaded, flip the Power Switch to the HEAT or COOL position.
- E. After cylinders have been drying for a short time (5-10 minutes), check each cylinder for dryness, and replace on the dryer if necessary or, load the next cylinder.

**NOTE:** Cylinder dry times can vary, depending on the size and/or material. Galiso, Inc. recommends using the COOL setting for composite cylinders.

### **! CAUTION !**

**The dryer can remain “On” when changing out cylinders but the operator should be careful to avoid touching the Manifold Frame, as it may be hot.**

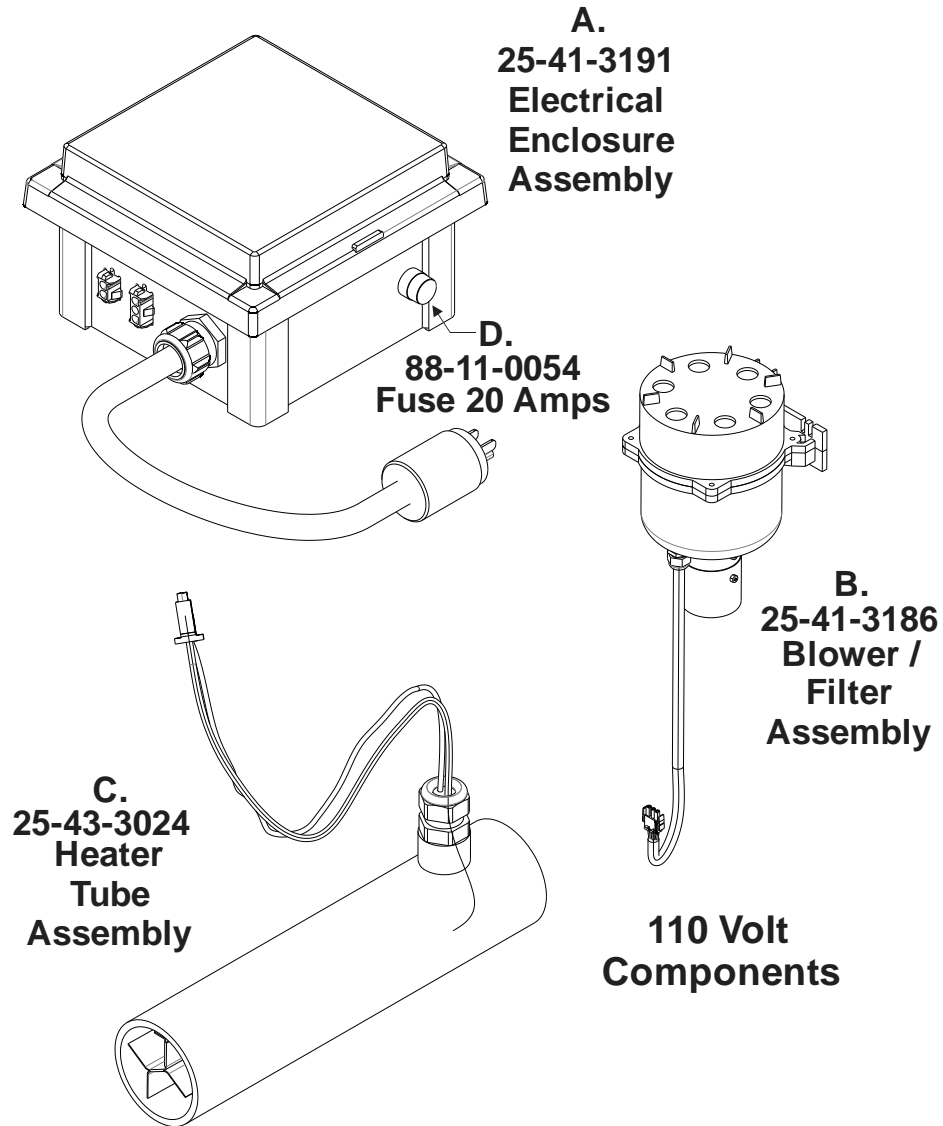
- F. To shut down at the end of the day, flip the Power Switch to “COOL” for approximately 2 minutes for the unit to cool down before flipping to the “OFF” position.

## 6.0 MAINTENANCE

- A. No regular maintenance is required except to check the air filter on top of the muffler at least once a month and replace if needed.

## 7.0 SPARE PARTS – 110 Volt

The LDD-4 has been designed with modular components for ease of replacing parts if necessary. See Figure 2 or 3 (dependent on the voltage of your machine), Replacement Components.



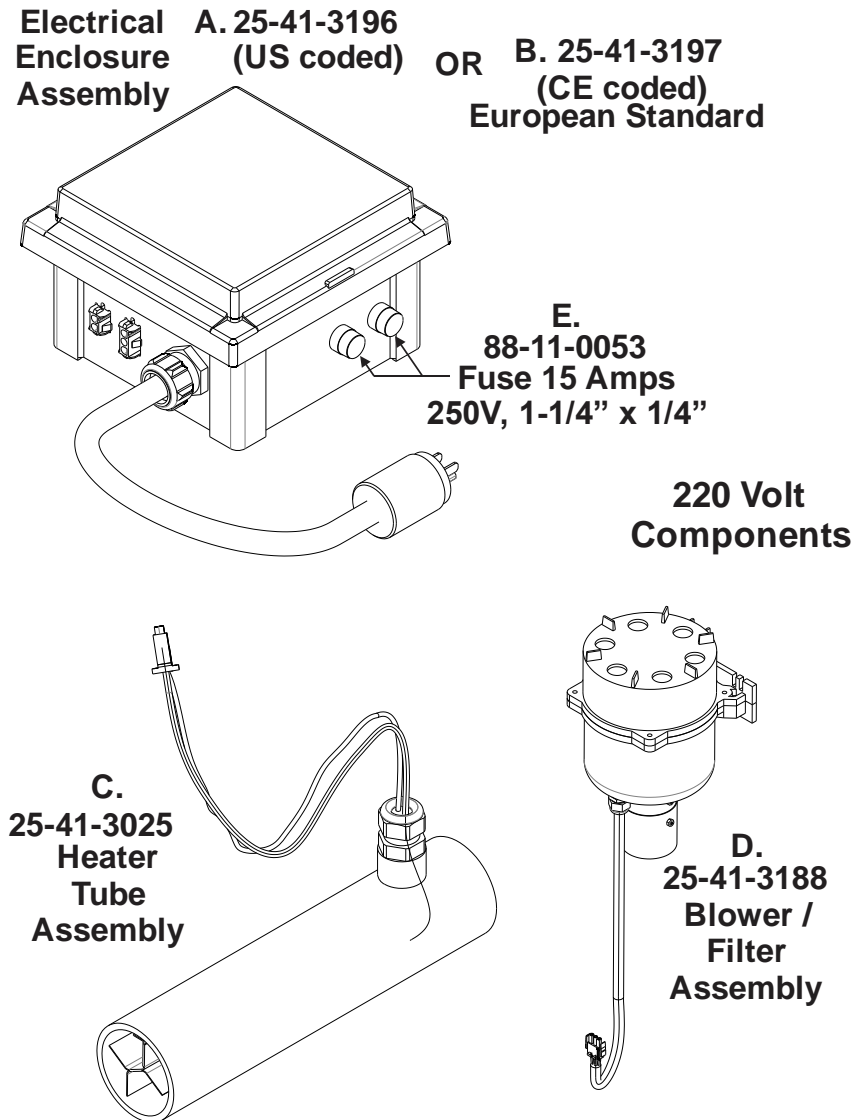
**Figure 2, Spare Parts -110V**

Item	Part No.	Description
A.	25-41-3191	Electrical Enclosure Assembly
B.	25-41-3186	Blower / Filter Assembly
C.	25-43-3024	Heater Tube Assembly
D.	88-11-0054	Fuse, 20 Amps



## 7.1 SPARE PARTS – 220 Volt

The LDD-4 has been designed with modular components for ease of replacing parts if necessary. See Figure 2 or 3 (dependent on the voltage of your machine and code requirements), Replacement Components:



**Figure 3, Spare Parts -220V**

Item	Part No.	Description
A.	25-41-3196	Electrical Enclosure Assembly US Coded
B.	25-41-3197	Electrical Enclosure Assembly CE Coded
C.	25-43-3025	Heater Tube Assembly
D.	25-41-3188	Blower / Filter Assembly
E.	88-11-0053	Fuse, 15 Amp, 250V, 1-1/4" x 1/4"

1. **DURATION:** Galiso provides a one-year warranty from date of purchase, to the original purchaser, for standard products, unless otherwise specified. For all spare parts purchases, Galiso provides a 90-day warranty unless otherwise specified. Soft goods such as our speed seals, and O-rings, which are subject to wear in the normal course of operation, are not covered under this warranty.
2. **COVERAGE:** Galiso manufactured equipment is warranted against defective materials or workmanship. THIS WARRANTY IS VOID IF:

A) THE EQUIPMENT HAS BEEN DAMAGED BY ACCIDENT OR UNREASONABLE USE, IMPROPER SERVICE/MAINTENANCE, IMPROPER INSTALLATION, ABNORMAL OPERATING CONDITIONS, NEGLIGENCE, REPAIR BY ANY PERSON NOT AUTHORIZED BY GALISO, INC. OR OTHER CAUSES NOT RELATED TO MATERIAL DEFECTS OR WORKMANSHIP.

B) THE SERIAL NUMBER HAS BEEN ALTERED OR DEFACED.

3. **PERFORMANCE:** Galiso reserves the right to make warranty determination only after inspecting the item at the Galiso manufacturing facility. If the warranty determination indicates that the defective item is covered under warranty, the item will be repaired or replaced with the same parts/items or parts/items of equivalent quality, at the option of Galiso. In the event of replacements, the replacement unit will continue under the original equipment warranty or carry a 90-day warranty, whichever is longer. No charge will be made for warranty repairs, and/or replacements. All freight charges to and from Galiso Inc. or a Galiso Inc. authorized repair facility, are the responsibility of the customer requesting warranty service.

If the warranty determination indicates that the item is **not** covered by warranty, a repair/replacement cost estimate will be submitted to the customer/purchaser for approval prior to initiating any repair work.

4. **CLAIMS:** In the case of equipment malfunction, notify Galiso (1-800-854-3789) and provide the Model Name, Model Number, Serial Number and a description of the problem. Return Authorization Number, shipping and/or service information will be provided on receipt of the required information.
5. **SERVICE EQUIPMENT:** Galiso attempts to make available, whenever possible, a limited amount of service equipment at a minimal use charge, plus freight expense, for those customers wishing to avoid downtime during repair of their equipment. Such items are available on a first come, first served basis and are billable at the specific service charge applying with a one-month minimum.
6. **MODEL CHANGES:** Galiso reserves the right to make changes in materials and specifications, without notice. Galiso may offer, for a stipulated fee, the opportunity to upgrade your equipment to the latest configuration.
7. **DISCLAIMERS:** Galiso provides technical data and assistance to aid customers in the selection and use of our products. There are no implied warranties of merchantability nor suitability for a particular purpose associated with the transmittal of technical data and/or customer assistance.

Galiso does not assume liability for any consequential, incidental, or special damages. Liability under this warranty is limited to repairing, or replacing Galiso equipment items returned to the factory or an authorized facility.

8. **COMPUTER AND NETWORK VIRUS PROTECTION:** Galiso Inc. equipment, which utilizes internet access, comes equipped with a subscription to virus protection software. It is the responsibility of the equipment owner to maintain this virus protection subscription or other virus protection at their cost. Current virus subscriptions are mandatory to maintain the benefits of this warranty. Galiso does not assume liability for any or all damages related to or are the result of internet or network failure or malware or computer viruses or any other type of internet or network malfunction or attack.