



**E36**

**POLY DISPENSER**

**USER GUIDE**

**ELECTRONIC AUTOMATIC DISPENSER WITH 4 FUNCTIONS THAT ALLOW TO MAKE THOUSANDS POLYURETHANE DOMED LABELS IN FEW HOURS .**



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**TO ENJOY FULLY ALL THE FEATURES AND FUNCTIONS OF YOUR PRODUCT, PLEASE READ THIS OWNER MANUAL CAREFULLY AND COMPLETELY**



## Safety directions

**ATTENTION!:** With the use of electric tools and to avoid contacts with electric power, injures and danger of fire, the following safety directions must always be observed.

Read and observe these indications before using the unit and keep these directions with care.

1. **Keep your working place in order:** Disorder on the working place may cause accidents.
2. **Environmental conditions:** Don't expose electric tools to the rain. Don't use electric tools in wet or damp environments. Be sure to provide a good illumination. Don't use electric tools near inflammable liquids or gas.
3. **Avoid electrification:** Avoid contacts with grounded objects, for ex. Tubes, radiators, refrigerators.
4. **Keep children away:** Don't let third persons touch the tool or the cable, keep them far from the working place.
5. **Put your tools in a safe place:** Put your tool in a dry and safe place in order to not be accessible by children.
6. **Don't overload your tool:** You'll work better and safer using the rating plate's power.
7. **Choice of the tool:** Don't use low power tools or accessories requiring high power. Don't use tools for work and purpose for which they haven't been designed.
8. **Work-clothes:** During working, always dress properly, avoiding the use of loose-fitting clothes or too large sleeves.
9. **Use safety glasses:** Always use protective glasses. If the work produces dust, use a mask.
10. **Pay attention to the cable:** Don't lift the tool by the cable and don't use it to pull off the plug from the outlet. Protect the cable from high temperatures, oils, edges.
11. **Fasten the piece to be worked:** Be sure that the piece to be worked is fastened and fixed. During working, always keep the tool with both hands.
12. **Avoid unsafe positions:** Be sure to stay in a safe position, in order to maintain a good balance.
13. **Take care of your tools:** In order to work in a safe way, sharpen and clean your tools, follow the prescriptions concerning maintenance and replacement of worn tools. Often control the cable and, in case of damages, have qualified people change it. Regularly check the extension cables and change them if they are damaged; handgrips and controls must be kept dry and clean.
14. **Changing of working tools:** Before repairing or replacing the tools, (for example saw-blades, points or worn tools), always unplug the unit.
15. **Don't leave service keys on the unit:** Before using the tool be sure that service keys are taken away.
16. **Avoid accidental startings:** Before you put the plug in the power outlet be always sure that the switch is off.
17. **Don't use the unit in open places:** The unit must be used indoor and in well lighted places.
18. **Always pay attention while working:** While working, don't be distracted. A lack of attention can cause accidents. In presence of other people in the working place, we recommend to maintain a suitable distance from the operator and the unit.
19. **Always check that the tool is not damaged:** Before using the unit, check with attention its efficiency and the perfect working of safety devices and if necessary of damaged parts. Check the efficiency of movable parts, that there are no clamped parts, no broken parts, that all other parts are correctly assembled and that all conditions that could influence the correct efficiency of the unit are optimal. Safety devices or damaged parts must be repaired or replaced by a Technical Assistance Service if not otherwise indicated in the use and maintenance handbook.
20. **Attention!:** For your safety use only tools or accessories indicated in the direction for use or offered in proper catalogues. The use of different accessories or tools, or not indicated in the direction for use or in the catalogue, may cause accidents.
21. **Have qualified personnel replace the tools:** This electric unit comply with the safety directions in force. The repair of electric tools must be done only by authorised assistance service.

**KEEP THESE DIRECTIONS WITH CARE**

## Starting of the unit

This machine should be installed in a lab and it should be used only from authorised people.  
 Unpack carefully and check if all the items are included (see pag 4).  
 Put the machine on a stable flat table

1) Connect the cable head plug of the electric fling cable to the proper socket.



2) Fix the Syringe holder.



3) Put the blue tube blue ( biggest ) into the air tube socket (L) on the unit



4) Put the blue tube blue ( biggest ) in the internal side of the syringes holder tower.



5) fix the flex tube LDA5 in the external side of the syringes holder tower.



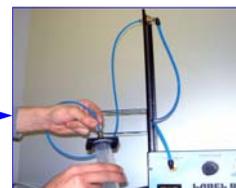
6) Fix the syringe LDA2 in the aluminium syringes connector LDA3 .



7) Fix the needle LDA1 with cap in the syringe LDA2 .



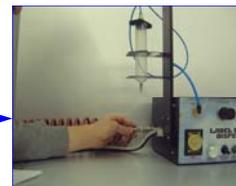
8) Fix the tube VMA5 in the aluminium syringes connector LDA3 .



9) Put the syringe LDA3 in the syringes holder tower.  
 We suggest to put a disposable container below the syringe in order to avoid accidentally fall drops of resin on the table



10) Connect air to the dispenser using the fast plug included.  
**You should check if your compressor is equipped with a filter for humidity. If not you should buy and put between the compressor and dispenser.**



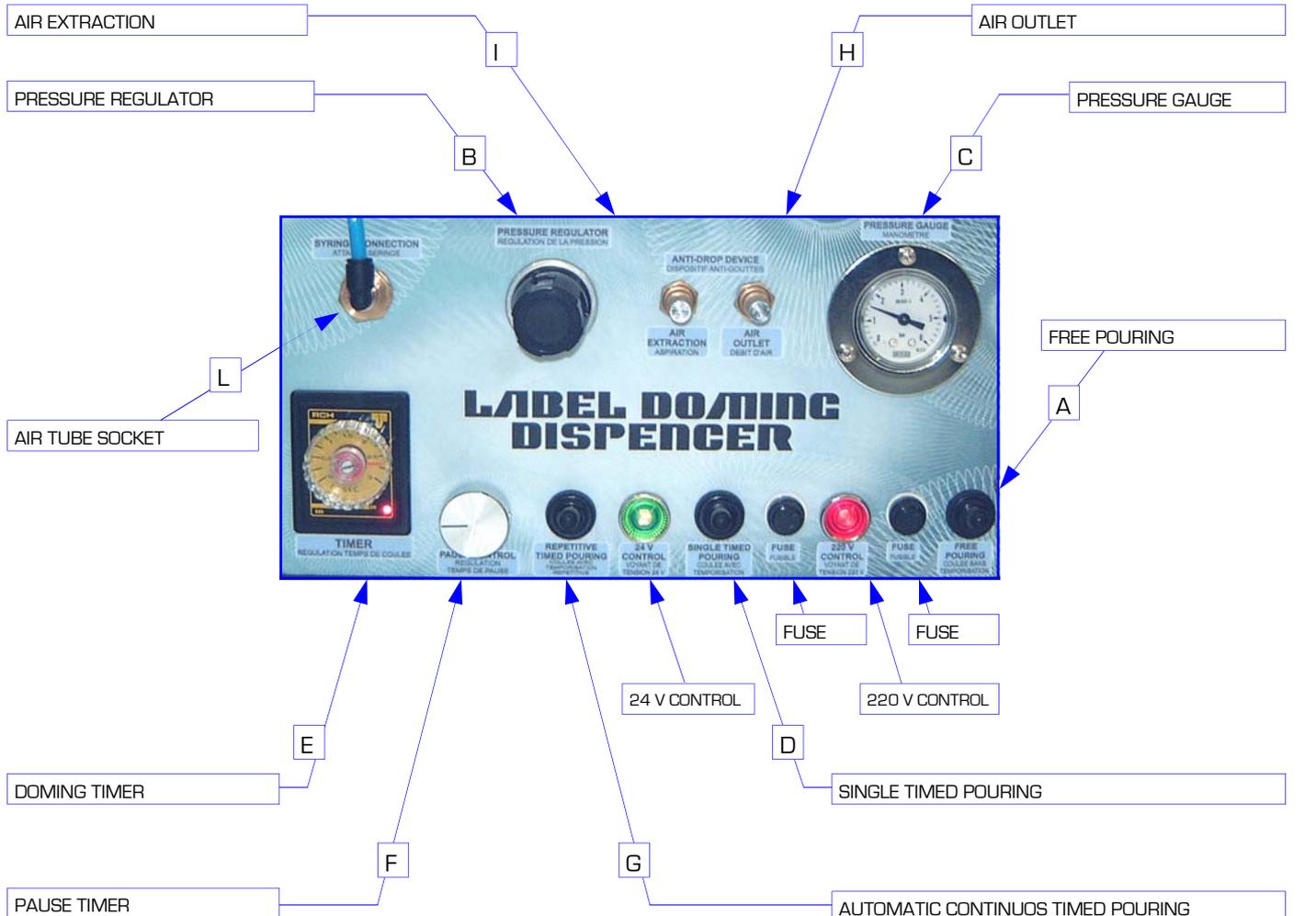
11) Check if the table is plain.  
 Also the shelves where labels will dry should be perfect flat.



12) Fix the label sheet on the shelf LDA9 using a magnetic strips or profiles.



**Technical features**



**Art. E36 Electronic automatic dispenser**

Working	Electronic-pneumatic
Alimentation	220 V single-phase
Absorbed current	24 Watt
Max pressure during operations	3 Atm
Components	24 V
Dimension	W. 34 cm - D. 28 cm - H. 51 cm
Weight	Kg 7

**Articles included with the unit and spare parts**

100 X needle LDA1 Assort.		20 X syringe LDA2 60 cc.		1 X connector LDA3 60 cc.		20 X joint LDA4 60 cc.		1 X balance LDA6	
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## Instructions - How to use with resin in 16 steps

Poliurethans should keep in a room with minimum 20° C. if is not possible you should pre-heat at 30°-40° for minimum 30 minutes. Use the VMA2 only one time. Before using protect hands and eyes avoiding any skin contacts.

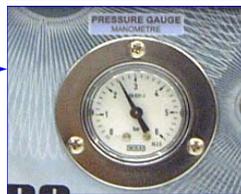
1) Turn on the **free doming function (A)** . In this function you'll be able to control the resin flow simply adjusting the pressure regulator(B).



2) Unlock the pressure regulator (B) , now you can add or release pressure.



3) Check the pressure on the pressure gauge (C)  
Pay attention to never cross 3 atm.  
If you need a big flow we suggest we suggest to use a big needle LDA1.



4) Pour the resin, prepared with the poly mix C80, in the syringe LDA2.

*NB. To chose the right resin mix see page 6 .*



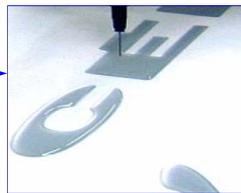
5) Push the foot pedal in order to obtain a pouring which it will allow you to follow the edge of the irregular label.

*NB. If the label is rounded and regular shaped you should doming with this*



6) Doming keeping the syringe vertical.

*NB. This free doming function is useful to doming letters or very irregular labels using the resin mix T823/K863 (see page 6).*



7) Turn on the **Single timed pouring (D)** if you have to dome regular label series .

*NB. This single timed doming function is useful to doming regular labels using the mix 813/K863 or T823/K863. (see page 6)*



8) Regulate the time of the pouring on the doming timer (E).

Each time you'll push the foot pedal you'll get the same quantity of the resin.



9) Push the foot pedal and you'll get one single timed pouring.

For example if you have 100 labels on a sheet you have to push 100 times and you'll get same quantity of the resin in all the labels



10) We suggest you to put a piece of disposable carton near the dispenser and experince on the carton trying to find the perfect quantity adjusting doming timer(E) and pressure regulator(B). When the right quantity is fixed you can enjoy with the automatic.



11) Turn on the **Automatic continues timed pouring (G)** .

*NB. This is the most relaxing and the most fast function to dome regular shaped label series.*



12) Regulate the pause time (F) and you'll only move between labels keeping pushed the foot-pedal.  
For example if you have 100 labels you push only one's the foot pedal and you will get the same dome in all the labels



13) Your skill it will be to move in the middle od the label fast enough for the setted pause time.



14) The resin will dry in few hours. It depends by the room temperature (see pag 6)  
*NB For more productivity we suggest to use the syringe LDA20 with capacity 120 gr. And cure labels using our oven fast dry C20.*



15) To work with the **anti-drop function** you should open the air outlet (H) turning left.

*NB. If you are a beginner you could practice without the resin but only trying to pick up a piece of paper with the needle.*



16) now regulate the air extraction (I) turning left.  
You'll work always with the needle clean because when you release the pedal it start sucking air.  
*NB. Use it only during the doming.*



## Instructions how to use resin: general suggestions

- The cans of resin must be preserved in environments with temperature than at least 22 °Cs. If this is not possible it becomes necessary to preheat the products to 30° - 40° Cs for at least 30 minutes.
- Before beginning the job protect himself/herself/themselves hands and eyes.
- The table for the doming and the ledges have to perfectly be in plain.
- Work and Preserve the products with least temperature of 22°C with inferior damp to 50% (condition of a normal room with a heater). The cleaning of the utensils and the accessories used for weighing, to mix and to dose the products is conclusive factor for the good result of the doming.
- Periodically check that the spatula VMA4 of the mixer C80 is correctly positioned, in the case that stirs it is necessary to stare at her/it with the special key in endowment.
- Avoid to make two following mixtures in the same container VMA1: problems can be created on the surface of the resin, what withdrawals, peel of orange and also defective drying. - Check around 10 minutes after the doming that bubbles of air don't stay; in case are present blazes the labels. The blaze has to be rapid and brought closer. - If they had to reappear bubbles of air in a second time these they are entirely imputable to an incompatibility with the used supports or with the adverse conditions of the environment of job. - Wait 24 hours before sending to the customers. Use appropriated silicon no stick papers to overlap the sheets with the resined labels.

## Characteristics and applications of resin mixtures

- RESIN T813 / HARDNER K863: very fluid, good flexibility, very good flow used to dome regular shape adesive labels.
- RESIN T823 / HARDNER K863: fluid, good flexibility, very good flow used to dome irregular shaped adesive graphics(letters big logos).
- RESIN T825 / HARDNER K865 : fluid, very good flexibility, use for thermo adesive labels only.

Ratio of catalysis resin / hardner, for all the products it is 1-1 Example: Resin T823 gr. 100 - Hardner K863 gr.100

- ADITIVE F510 it increases flexibility if added 5-10% to resin T813 or T825 used for very curved applications only.

Example: Resin T823 gr. 100 aditive F510 gr. 5 - Hardner K863 gr.100

Baking time in the oven (at 35° - 40°): 2 / 3 hours.

Curing time room temperature (at 20-25°): 6/8 hours.

Pot life (100 grs. Resin + 100 grs. hardner to 22° around): 25 / 30 minutes.

Attention: if they are mixed among them greater quantity of resin / hardner or if you work with a room temperature very elevated , the pot life decreases.

## Characteristics and advantages with the use of the Oven C20, the bases easy level set up and the others dust free trays.



Regulable bases and superimposable dust free trays that maintains labels dust free reducing waste cost. It allows a easy level set up and a easy fix of the label sheet by using magnetic strip or profiles or by using remount spray adhesive.

**Art. LDA9** Dust free superimposable tray it can be used in the oven C20 or with Bases

**Art. LDA17** Thermo zincate base **cm 82x27x8** with 6 regulable feet It allows easy level set up.

**Art. LDA18** Dust free superimposable tray cm 82x27 with 6 feet. Use with LDA17 base

**Art. LDA37** Thermo zincate base **cm 82x52x8** with 6 regulable feet It allows easy level set up.

**Art. LDA38** Dust free superimposable tray cm 82x52 with 10 feet. Use with LDA37 base.



**Art. oven fast dry domed labels C20** dedicated to cure domed labels it increase production speed and it reduces waste cost.

It's Equipped with 10 shelves

It's Equipped with adjustable feet for flat results

Alimentation	220 V - 50 Hz monofase
Energy consumption	W 650
Internal dimension	larg. 40 cm X prof. 25 cm x h. 30 cm
External dimension	larg. 46 cm X prof. 28 cm x h. 42 cm
weigth 10 LDA9 included	Kg. 20

## Accessory availables for the Poly dispenser E36

	<b>Art. LDA1-50</b> needle for syringes box 50 pieces each size. SIZE AVAIABLE: exterior diameter: mm. 0,90 - 1,10 - 1,20 - 1,60 - 1,80		<b>Art. LDA1-500</b> needle for syringes pack 500 pieces each size. SIZE AVAIABLE: exterior diameter: mm. 0,90 - 1,10 - 1,20 - 1,60 - 1,80
	<b>Art. LDA2</b> syringe capacity 60 cc box 50 pieces		<b>Art. LDA2-350</b> syringe capacity 60 cc box 350 pieces
	<b>Art. LDA20</b> syringe capacity 120 cc box 30 pieces		<b>Art. LDA20-200</b> syringe capacity 120 cc box 200 pieces
	<b>Art. LDA3/60CC</b> aluminium connector for syringes 60 cc		<b>Art. LDA4/60 CC</b> joint for syringes 60 cc
	<b>Art. LDA3/120CC</b> aluminium connector for syringes 120 cc		<b>Art. LDA4/120 CC</b> joint for syringes 120 cc
	<b>Art. LDA5</b> flex tube to connect LDA3 to the vertical syringe holder.		<b>Art. LDA6</b> digital balance division 1gr Weigth 0 - 2 kg of resin
	<b>Art. LDA12</b> digital igrometer with time to check room humidity condition and to check production time.		<b>Art. LDA8</b> bubble remover
	<b>Art. LDA13</b> Remount Adesive Spray Can 400 ml to a A Post-it type of adhesive which will not give a permanent bond Allows for lifting and mounting numerous times wi-		<b>Art. LDA14</b> application tape for domed kiss cutted graphics. It allows combination of graphics over-layer.

## How to make labels for doming

**Polyurethane resins are dispensed as a liquid and cure to a crystal clear polyurethane dome. Due to the nature of the liquid resin, following these guidelines will make application more efficient and economical.**

Guidelines:

1. Even if our resin are very compatible with inks we suggest you to test each time you change ink, substrates or printers before production runs. Do not use paper as a substrate.
2. We suggest a permanent back adhesive.
3. Making the graphic leave a minimum of 1 mm between pieces .Remember especially if you are a beginner working on A4 it's easier than with bigger layout.
4. Kiss cut and weed sheets.
5. Do not cut through release liner.
6. If emboss is necessary, try to keep as low as possible.
7. Round corners where possible.
8. Avoid sharp angles on inside cuts..
9. Use double sided release liner.
10. After peeled the matrix you should pass a flat heavy on the sheet to fix labels down on liner.
11. Best way to fix label sheet on the shelves are using magnets or Remount Spray Adhesive.
12. Use the appropriate resin for the label type ( see pag 6).

## Periodical maintenance by the operator

ALL THE MAINTENANCE OPERATIONS MUST BE MADE WHEN THE UNIT IS SWITCHED OFF, DISCONNECTED FROM THE MAINS.  
 TEST PERIODICALLY THE MAINS SUPPLY CABLE CONDITIONS. IF IT WILL APPEAR DAMAGED, HAVE QUALIFIED PEOPLE CHANGE IT.  
 PERIODICALLY TEST THE FILTER OF THE COMPRESSOR,  
 KEEP CLEAN THE MACHINE ESPECIALLY THE DOMING TIMER (E) AND THE PAUSE TIMER (F)  
 PERIODICALLY TEST SYRINGE JOINT LDA4 WITHOUT THE RESIN AND CHANGE IT IF NECESSARY.

## Declaration of conformity

### DIRECTIVE 89/392/EEC AND FOLLOWING MODIFICATIONS

**EURO DROP SAS**  
**VIA SELLA, 12**  
**20094 CORSICO - (MILANO) / ITALIA**

DECLARE UNDER OUR EXCLUSIVE RESPONSIBILITY THAT THE PRODUCT:  
**POLY-DISPENSER E36**

MATR. N°

TO WHICH THIS DECLARATION IS REFERRED IS IN CONFORMITY WITH WHAT IS ESTABLISHED BY THE DIRECTIVES:

EN50081-1, EN55014, EN50082-1, EN292,  
 89/392/EWG MODIFIED, 93/68/EWG and 91/368 EWG and 93/44EWG,  
 EMV89/336/EWG MODIFIED 92:31:EWG

CORSICO (Milano)

(Product Eng. office)

## Manufacturer's limited guarantee

**LIMITED GUARANTEE: EURO DROP SAS** GUARANTEES THAT THE UNIT IS FREE FROM DEFECTS OF MATERIAL AND PROCESSING FOR ONE YEAR FROM THE PURCHASING DATE.

THE GUARANTEE IS VALID ONLY IF THE PRODUCT WAS BOUGHT SOUND FROM **EURO DROP SAS**.

THIS GUARANTEE ISN'T VALID IF THE PRODUCT WAS USED IN AN ILLICIT WAY, IF WAS ALTERED, CHANGED OR REPAIRED BY PERSONNEL NOT AUTHORIZED FROM **EURO DROP SAS**.

IN THE CASE THAT THE PRODUCT SHOWS, IN ONE YEAR FROM THE PURCHASING, DEFECTS OF MATERIAL OR PROCESSING, IT MUST BE SENT TO **EURO DROP SAS**, WITH TRANSPORT EXPENSES PAID, ENCLOSING NAME, ADDRESS, THE PURCHASING DATE'S PROOF AND A SHORT DESCRIPTION OF THE NOTICED DEFECT.

**EURO DROP SAS** AT ITS DISCRETION WILL CARRY OUT THE REPAIR OR THE CHANGE OF THE DEFECTIVE PRODUCT WITHOUT ANY EXPENSE BY THE PURCHASER. POSSIBLE REPAIRS OR CHANGES ARE GUARANTEED, AS DESCRIBED ABOVE, FOR THE REST OF THE ORIGINAL GUARANTEE TIME. THE GUARANTEE IS LIMITED TO THE REPAIR AND CHANGE OF THE DEFECTIVE PRODUCT.

(THERE ARE NO OTHER IMPLICIT OR EXPLICIT GUARANTEES. MOREOVER N.A. WILL NOT BE RESPONSIBLE FOR CASUAL, CONSEQUENTIAL OR SPECIAL DAMAGES, FOR COSTS OR EXPENSES FOR REPAIR OR REPLACEMENT AS ABOVE DESCRIBED).